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MAY 1950

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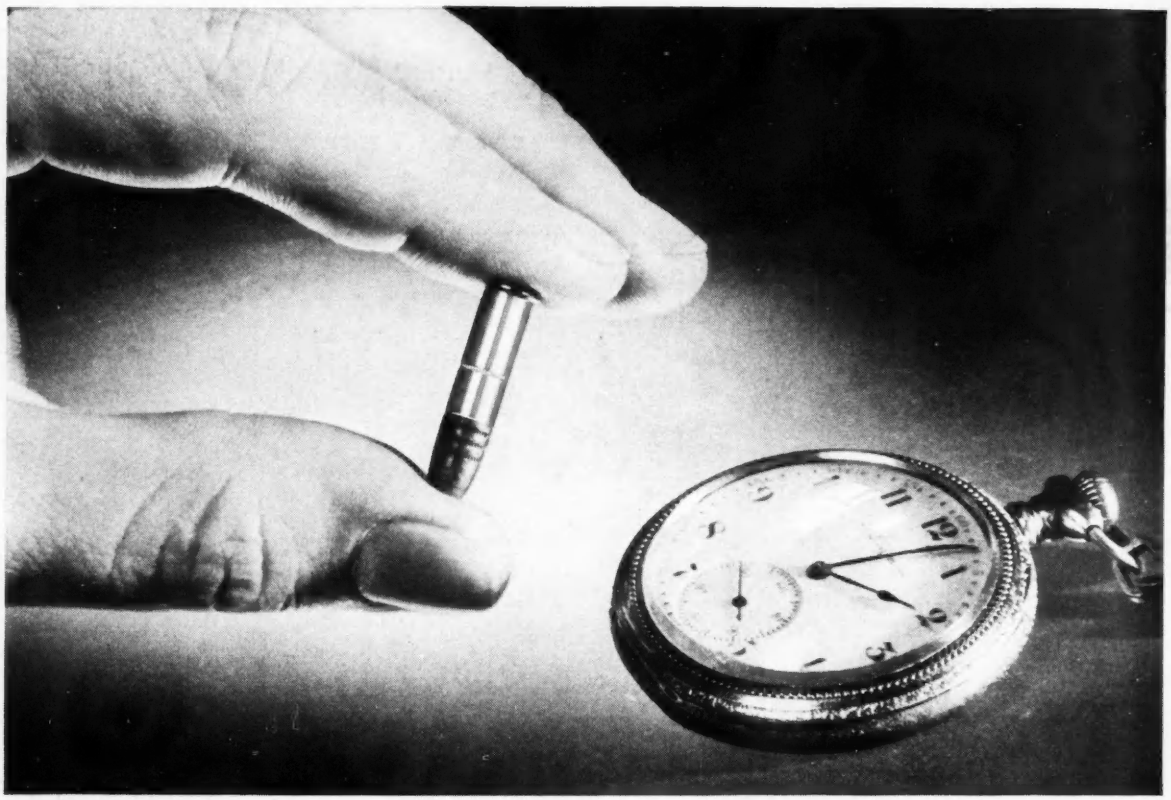

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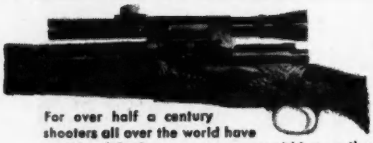

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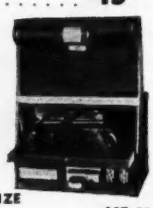

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AMERICAN RIFLEMAN

The Rifle 1885-1888
Shooting and Fishing 1888-1906
Arms and the Man 1906-1923

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COVER

Colonel Townsend Whelen, dean of America's arms writers, was photographed as he competed in the 1949 bench-rest matches at Johnstown, Pennsylvania. John Lehman took the photograph on Kodachrome with an 8x10 view camera. For more on the Johnstown bench-rest tournament, turn to page 31.

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InCidenTa/Ly

As USUAL, we're up an editorial stump, and the only way to get down seems to be to yell for help. We don't know what to publish in the next issue of the RIFLEMAN.

Go ahead, say it! If we don't, who does?

Unfortunately, it isn't always that simple. Take the article in this issue by Don Hopkins. Over the years we've published (as has everybody else) a continuing flood of How-I-Killed-Old-Slewfoot stories, African and otherwise. Sometimes these personal adventure yarns have included valuable observations on game and guns, sometimes not. The point is that, usually, we have presented them as 'entertainment' pure and simple . . . with the full realization that few among us will ever find ourselves in Africa where we can put such knowledge to work. This article by Hopkins, however, is something else again. His up-to-date and never-before-published details of where, what, how, and why are a sort of condensed Baedeker for the aspiring African bongo-bagger. They aren't going to be of much use to anyone who doesn't at least dream of going to Africa someday. Or are they? Are such factual details of costs and equipment interesting enough in themselves to justify publication with the knowledge aforethought that few of us will ever be able to put them into practice?

Don Hopkins sent us the manuscript in spite of a definitely cool reaction from the RIFLEMAN editors when he first broached the subject. Fortunately, Don guessed right about this particular bunch of editors, in realizing that they don't object to having their minds changed. We found in Hopkins' manuscript a lot of things we didn't know about hunting in Africa, and those things seemed interesting enough to us (who have never been there and perhaps will never have the experience) to pass along to you . . . with the knowledge that you're probably in the same boat as far as an African hunt is concerned.

A second article came in from Don Hopkins the other day—which has us that much farther up on our stump. Wrote Don: "Since there is always the chance that an elephant may step on me this year, I am sending a story of my 1949 African hunt, entitled 'Letters of a Wildcatter'. These are letters . . . written to Elmer Keith and Charlie O'Neil during my safari in Kenya and Tanganyika in 1949." Chances are, had Hopkins asked first, we'd have turned these letters down cold. No interest in African experiences: not enough people going over to justify the space. On reading them, however, our opinion changed. The letters are intensely interesting to us, and we believe they will be to the majority of RIFLEMAN readers. Our bet is that you'll find Don Hopkins' letters of absorbing interest merely because you're a gun lover . . . regardless of whether you have dreams of an African trip or not. To us, in their unpretentious, factual, common-sense approach, they're among the best things to come out of Africa in a long time. (One of the reasons for that excellence, incidentally, is the matter of experience. After twenty-two extended trips after big game outside of the USA—total: some five years in the field—we think that Hopkins knows what he is talking about.)

So . . . we're taking a chance with the publication of Don Hopkins' article in this issue, and later on you'll be seeing those 'letters of a wildcatter'. We hope you like 'em.

JS

ATTENTION! *As we go to press, word has been received of the start of an unexpected strike of bindery workers in the plant of our Washington printer. A delay of at least one week in the production and mailing of this issue of* THE AMERICAN RIFLEMAN *is almost a certainty; how much longer the strike will delay mailing of the magazine is, at the moment, anyone's guess. If you have written asking the whereabouts of your May* RIFLEMAN, *please accept this notice as acknowledgment and explanation.*—THE EDITORS.

RIFLEMAN WORDS • • • •

A lexicon for shooters which defines words and terms appearing in articles more fully than is possible by their use in text.

AUTOLOADING—See semiautomatic below.

COCKING PIECE—The projecting end of the striker or firing pin extending to the rear from the bolt of certain rifles. In most instances the cocking piece may be grasped manually to cock the arm.

COOK-OFF—The premature firing of a cartridge because of extreme heat in a barrel. Most common in full automatic arms such as machine guns, in which sustained firing may heat the barrel to a high degree.

DOUBLE-SET TRIGGER—See set trigger below.

FACTORY AMMUNITION—A term applied to cartridges loaded at factories, and not reloaded by riflemen.

GAIN TWIST—Rifling in the bore of a firearm which increases in the rate of twist from chamber to muzzle. Such rifling might start out with a pitch of one complete turn in sixteen inches of barrel length and gradually increase to one complete turn in ten inches at the muzzle.

LEVER ACTION—A type of rifle action which has a lever connected to the breechblock to permit opening and closing the breech. The lever is usually mounted under the receiver or frame so that it forms a trigger guard and extends to the rear along the underside of the stock or grip.

MAXIMUM CHARGE—A weight of powder which, in combination with specified ammunition loading components, produces the maximum chamber pressure considered safe for the gun in which the load is fired.

MILLIMETER—A measure of length or distance equal to one-thousandth of a meter, or .03937 of an inch. One meter equals 39.37 inches.

SEAR—One or more levers operating between the trigger and the hammer or cocking piece of the firing pin to provide additional controlled leverage, thus improving trigger action while transmitting that action to the hammer or firing pin. Spelled *scear* in England.

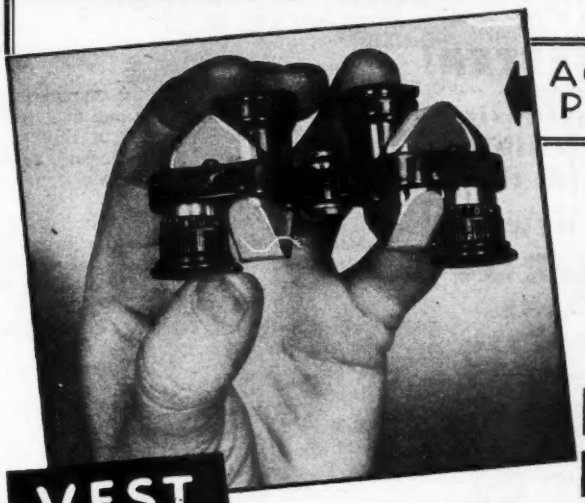
SEMIAUTOMATIC—A small arm which utilizes the force of recoil, gas pressure, or mechanical spring action initiated by the firing of a cartridge to load and cock the arm for the next shot. Unlike an automatic arm, the trigger of a semiautomatic must be pulled for each shot. Typical semiautomatics (also called autoloaders) are the .45-caliber Colt 'automatic' pistol, the M1 (Garand) rifle, and the Colt Woodsman pistol.

SET TRIGGER—Also called double-set triggers. Usually, double triggers arranged one ahead of the other in the trigger guard. 'Setting' the rear trigger engages a lever or series of levers after which a very slight pressure on the forward trigger springs the 'set' and fires the weapon. Single-set triggers are so arranged that setting is accomplished with a forward pressure, after which a light rearward pressure fires the arm.

SINGLE-SET TRIGGER—See set trigger above.

YAW—Movement which occurs during the flight of a bullet. Instability due to poor bullet shape or improper velocity causes the nose of the bullet to rotate around the trajectory, instead of remaining 'head on'.

TOMORROW'S GLASS .... TODAY



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AMERICAN RIFLEMAN

Dope Bag Jan. 1950

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Liberty

January 1950 Issue

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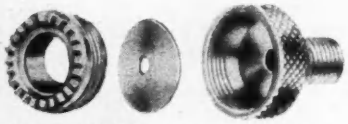

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TAME CATS

Seattle, Wash.

Editor:

It is uncommon to agree completely with any man but occasionally one does read an article that he would like to have written himself. So it is with Douglas Faulkner's "Common Sense and Case Shape" (RIFLEMAN, April).

Anything and everything in the THE RIFLEMAN has held my interest for twenty-three years, including the wildcat cartridge trend. This brew, however, has needed boiling down for a long time, and Mr. Faulkner's article, replete with basic facts and common sense, does it most adequately.

L. M. KUHNLEY

New Castle, Indiana

Editor:

I think "Common Sense and Case Shape" by Douglas Faulkner is one of the best articles I have ever read in the RIFLEMAN.

VIRGIL GARNETT

Whitesboro, New York

Editor:

Not only is it very plain that (Faulkner) knows nothing about cartridge case shape in relation to speed, accuracy, and pressures, he apparently would like to pass a law to prevent anyone else from learning about the subject.

Evidently one of those what-was-good-enough-for-grandpa-is-good-enough-for-me characters. I wonder how he accepted modern plumbing?

Frankly, never have I read a more imposing mass of misinformation.

Then he closes by praising the .220 Swift, forgetting that he never would have had a chance to see or shoot one if it were not for the untiring efforts of the .22 wildcat experimenters showing that such a shell was practical and needed and thus forcing the arms companies to be on their toes. Now we have the new Remington 222, another sweet little .22 vermin shell.

Is the answer still "baloney and horse feathers"???

LYSLE D. KILBOURN

New York, New York

Editor:

The article "Common Sense and Case Shape" is the best that ever appeared in any man's magazine yet.

It is showing the light about the super guns to me and I believe to countless others.

CHARLES R. HARN

Jacksonville, Illinois

Editor:

Hooray! And a basket of roses to Douglas Faulkner for "Common Sense and Case Shape". The best article written since I have been reading the RIFLEMAN. There is a man with some sense.

JOHN M. SAVOIE

Montrose, California

Editor:

I wish to give you my heartiest congratulations, to be passed on to Douglas Faulkner, for one of the best articles of the year, "Common Sense and Case Shape". It is really a wonderful piece of work. I have done commercial custom loading and some of the requests for special souped-up, differentiated-angled monstrosities have been enough to make me wonder if some of our shooters were slipping mentally or what.

I'm in favor of more articles like this. The April issue of THE AMERICAN RIFLEMAN is one of the best I've seen yet, and they are all damn good.

You can count me in for three more years starting next June when my subscription is over. Better yet, send me info on the life member plan.

I think Elmer Keith is a fine addition to an already fine association.

TOM BARRABEE, JR.

LONG-BARREL MAN

Blue River, Wisconsin

Editor:

I enjoyed Phil Sharpe's article "Barrel Length and Velocity" (RIFLEMAN, March), but why didn't he: a) Stick up a target out about 100 yards and give us some statistics on group size for various barrel lengths and loads? b) Run some more tests, especially with loads 3, 4, 6, and 7, with barrels longer than 30 inches and let us see what the effect would be?

WILLIAM H. HANNAN

CHAMBER OF COMMERCE

Lancaster, Pennsylvania

Editor:

Re: "Three-in-One Rifle" (RIFLEMAN, April, page 17). How stupid. I never knew the designation CCC behind a rifle caliber meant California Chamber of Commerce.

D. T. RUTLEDGE

PRO . . . PRE?

Oberlin, Ohio

Editor:

In RIFLEMAN Words (March 1950), your lexicographer speaks of ballistic drift as being due to "*pro*cessional rotation". This is not true. Ballistic drift is due to *pre*cessional rotation. The expression "processional velocity" has no meaning as used here. Precessional velocity for small angles is given by the expression: $\Upsilon = I\omega\Omega$ where Υ equals torque (caused by gravitational attraction here), I equals moment of inertia of bullet, ω equals angular velocity (in radians), and Ω equals precessional velocity (in radians).

The drift or deviation will be up, down, or to either side depending on the instant of time.

GEORGE SMITH

TOO TECHNICAL

Bedford, Ohio

Editor:

My subscription to the RIFLEMAN has lapsed.

I have no reason to disagree that the articles pertaining to firearms and ammunition in the RIFLEMAN are both accurate and unbiased. My subscription has not been renewed simply because the little interest in firearms I try to cultivate by subscribing to the RIFLEMAN is now buried beneath a huge incomprehensive pile of technical and statistical data for which I have no earthly use or desire to absorb in detail.

I do not have the time or patience to wade through a technical manual, the major por-

(Continued on page 8)

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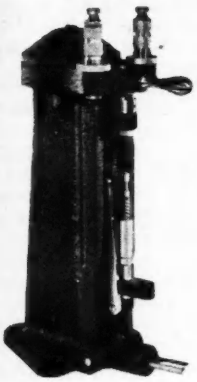

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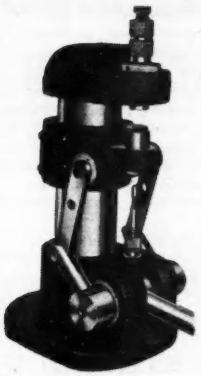

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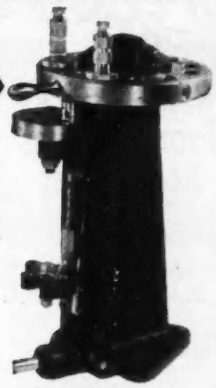

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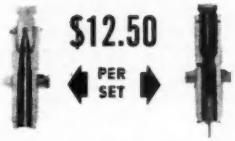

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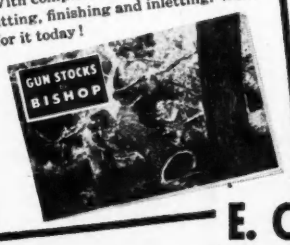

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SPORTER type.....$ 5.00
MANNLICHER type.....8.50
HEAVY TARGET type.....8.50

SPORTER and MANNLICHER type stocks fitted with your choice of Black or Ivory tenite Butt Plate, Grip Cap and Forend Cap. White inserts optional on Superior Grade. HEAVY TARGET type stock fitted with Mershon no-slip, White line butt plate.

BISHOP'S NEWEST LINE
Completely Hand-Finished Stocks
Standard Grade. - A beautiful stock, completely finished, made of select walnut. Hand rubbed. Beautifully checkered on each side of grip and fore-end. Fitted with black or Ivory tenite butt plate, grip cap and fore-end tip. White inserts optional. Comb for either telescope or iron sights. Right or left hand cheek piece. With or without Monte Carlo. Custom fitting at no extra charge. Post Paid..... **32.50**

DeLuxe grades obtainable at higher prices.
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E. C. BISHOP & Son WARSAW, MO.

by BISHOP

NEW CATALOG

NEW DISCOUNTS

NEW GUNSTOCKS TOOLS-FITTINGS ACCESSORIES

EVERY ITEM GUARANTEED!

FINEST QUALITY AT LOWEST PRICES

When you select a Herter stock or blank for your sporter, you can do so with full assurance that your source of supply is used and endorsed by top-notch gunsmiths, firearms consultants, authors and marksmen in the nation. Included among them are Colonel Townsend Whelen, William L. Humphrey, Alfred J. Marciante, Jack O'Connor, A. D. Lefor, Lawrence R. Koller, L. R. Wallack, Jr., Al Barr, H. A. Donaldson, Russell Smith and thousands of enthusiastic amateurs. Herter's solidly back such endorsements with rigid guarantees on all items listed.

Write Today for Free Catalogue 40

LAMINATED STOCKS ADD BEAUTY PLUS ACCURACY (Immediate Delivery)

Laminated stocks were developed by the German army during World War II as an aid to accuracy. Since that time, many new checkerboard and mosaic patterns have been developed which have sacrificed accuracy for novelty. However, Herter's laminated blanks are conservatively made up to follow time-proved principles: 1. To give riflemen the ultimate in a stock which would hold a true zero without warping. 2. To add beauty to the

finished product. These blanks contain two of the most stable woods known for rifle stocks. They are walnut and maple, indestructibly wedded together in ⅛ inch laminations, which is the maximum thickness which will hold a true zero without warping. The woods are selected for grain to eliminate stress and to make the stock work for the shooter. We unconditionally guarantee these blanks and stocks for maximum accuracy and stability. Fittings and services available as on Walnut stocks described at right. PRECISION INLETTED STOCKS $29.00, postpaid. COMPLETELY FINISHED STOCKS $47.00, postpaid. LAMINATED STOCK BLANKS, $16.85, not postpaid.

METAL BUTT PLATE GRIP CAP

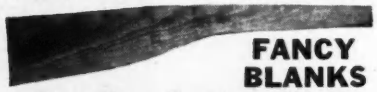
Our new steel buttplate and grip cap are masterpieces of design. We guarantee them to better the best in the field, regardless of price, and to compare with the finest hand made ones. Gracefully curved, they are fully Swiss knurled and case hardened. Center shield left smooth for initials. Order a supply for customers who demand the best. **Buttplate $1.25. Grip Cap 75¢. Entire set $1.75.**

STREAMLINER FOREARM TIP

This tip is made of Bakelite and is cut back at an angle. This model provides the final refinement on the finest custom stocks in both this country and in Europe. Easy to install, it permits the amateur to add a professional touch to his finished stock. Bakelite is unbreakable with normal usage. It is weatherproof and is the most stable of all plastics for solid casting. Tip is drilled with ⅝ inch hole for mounting with dowel to stock. **Each $1.35.**

FINEST STEEL SLING SWIVELS

Herter's famous detachable swivels are not new-fangled gadgets. Built of best quality steel, hand polished and blued, they are guaranteed not to twist, turn or work loose. Supplied for 1 and 1¼ inch slings. **Swivel with wood screw for butt $1.00; with machine screw and nut for forearm $1.25; with barrel band (specify size) $2.00.**



FANCY BLANKS For Fine Custom Work

The largest stock of plain and fancy blanks available in America today is available at Herter's. All blanks are dried down to a moisture content of 7% or less and vary in price with the beauty of the grain. AMERICAN WALNUT SPORTER LENGTH BLANKS: Six price ranges from $2.75 through $31.00. AMERICAN WALNUT MANNLICHER LENGTH BLANKS: Field and custom grade, only, $5.00 and $9.50; FRENCH WALNUT SPORTER LENGTH BLANKS: Four price ranges from $7.00 through $40.00. CURLY MAPLE SPORTER BLANKS: $16.00 and $30.00. MYRTLEWOOD BLANKS, SPORTER LENGTH: $14.00, $22.75, $31.50. LAMINATED WALNUT AND MAPLE BLANKS $16.85. SHOTGUN STOCK BLANKS: Five price ranges from $1.33 through $8.70. SHOTGUN FOREARM BLANKS: Five price ranges from 40¢ through $1.75.

WRITE TODAY FOR FREE CATALOG 40

HUNDREDS OF ITEMS FOR GUNSMITHS AND HUNTERS

HERTER'S, Inc.
SINCE 1893
WASECA, MINNESOTA, U. S. A.

WALNUT STOCKS OF EXCELLENT QUALITY *INCLUDING NEW LAMINATED MAPLE AND WALNUT STOCKS*

Enfield, Krag, Springfield, Mauser, Short Action Mausers, Winchester M70, Jap 25 and 31 calibers, Remington M721 and 722, Russian Mossin 7.62. Any grade of walnut, regular or Monte Carlo models with or without cheek-rest. We guarantee our precision machine inletting is the most accurate in America. Using regular household tools, an amateur can bed an action and barrel in less than 3½ hours; an expert in 1½ hours. Exclusive time proven designs created by expert gunsmiths.

$6.50
INCLUDING
Knurled Bacite butt plate, grip cap, forearm tip installed with spacer plates optional if desired. Fittings available in black, ivory or mottled walnut.
ALL STOCKS POSTPAID

Stocks machine sanded with Bacite buttplate, grip-cap and forearm tip attached. Ivory or black spacer plates installed between stock and fittings optional at no additional cost.

For steel fittings, add 75¢ to cost of any stock listed; steel fittings installed 75¢; for Streamliner tip, add $1.00. Streamliner tip installed add 50¢; for adding white spacer behind Streamliner tip, add 70¢. For any stock machined to final outside dimension, ready for final sanding, add $2.25. Add $7.00 for stock completely hand inletted so that rifle will drop into place with no further work.

FANCY WALNUT STOCKS: Custom grade $11.45; Demi Deluxe grade $15.00; Deluxe grade $20.95; Grand Deluxe and Grand Piddleback grades $35.00. French walnut, Field Grade $8.95; Custom grade $14.25. Laminated Maple and Walnut stocks $29.00. All precision inletted with Bacite fittings attached, spacer plates optional. Write for quotations on stocks in curly maple and myrtlewood. Mannlicher type stocks for Mauser, Springfield, Enfield $11.50.

FITTING AND FINISHING MACHINE INLETTED STOCKS

Here is the only complete manual ever written on the subject of fitting and finishing machine-inletted stocks. William L. Humphrey, outstanding American stocker, is the author, and he has thoroughly covered the subject from an outline of the bare necessities for tools through the step-by-step process of fitting the action and bedding the barrel. Also included are the details of final shaping and finishing with oils or resins. MANUAL SUPPLIED WITHOUT CHARGE WITH EACH GUNSTOCK UPON REQUEST OF CUSTOMER ONLY.

FINISHED STOCKS
FOR ALL RIFLES LISTED ABOVE

These stocks are completely ready for use in the field and are absolutely guaranteed to be the finest available in the price range which they represent. Available with or without Monte Carlo comb and with a cheekpiece for a right hand shooter. For stock fitted with forearm tip, add $1.25. For ivory or black spacer plates installed, add 50¢, each. Add $3.00 for fitting stocks to actions with conversion barrels of standard sporter dimensions or smaller. Enfield stocks are designed for the straightened floor plate, with or without modified bolt; on Mauser stocks, specify whether battle sight sleeve has been removed.

$24.50
Postpaid

A. H. BARR Says;
(NRA Technical Division)

"I think you are doing a fine inletting job and I know a lot of stock makers who are using these blanks."

ABOUT OUR HAND INLETTING

"Naturally, I took the gun apart and inspected the inletting very carefully and . . . it is a very nice job. I like the close hand fitting and as long as you can turn out that kind of work I think you can get plenty of recommendations."

On All of Our Products & Stocks, We Back Such Approval with Our Guarantees.

tion of which is made up of dozens and dozens of pages of repetitious and meaningless buy-and-sell advertisements.

My accumulation of three years issues has been given to a local veterans hospital; this publication is not for me.

E. A. FRANK

ORCHIDS TO PHIL

Andover, New York

Editor:

A great big round of applause should echo from every corner of the nation, or I should say from wherever in the world there are pistol shooters, to Phil Roettinger for his work and resulting discoveries as so nicely put in "Handguns, Groups, and Bullseyes" (RIFLEMAN, March). For years I have had that old stuff about guns shooting better than you can hold them thrown at me and had just about given up hope of ever convincing my friends that this kind of talk was the strongest argument in the world for doing everything possible to make them shoot better, when along comes Phil whamming out the facts. The way he points out the even greater importance of accuracy in handguns due to the much greater difficulty in steady holding leaves even the hardest to convince with nothing to say.

FAY BROWN

GUNSMITHING SCHOOLS

Susanville, Calif.

Editor:

You are to be commended for your article on the three gunsmithing schools in the March issue. Lassen Junior College is glad it has taken the 'middle of the road' on the matter of the ratio of time spent on academic subjects to that spent in the shops.

May I point out an error in your article. The Lassen Junior College does not plan to give the AB degree at the end of the course. California Junior Colleges are not permitted to award degrees beyond the AA (Associate of Arts). However, we do issue a certificate of completion in addition to the AA or the Junior College diploma.

L. VERNON GREENLEAF,
President

AMMO PROBLEM

Menominee, Michigan

Editor:

Last fall you saw fit to publish in the November issue of the RIFLEMAN a letter from the writer presenting a simple little gripe about the lack of proper .30-'06 ammunition available in the retail stores of this community and the shortcomings of the ammunition distribution system in general.

Since the publication of my letter, I have received no less than 81 letters and cards as well as a number of telephone calls, from fellow RIFLEMAN readers in fourteen states offering their advice and/or help.

I cannot help but think of what a wonderful thing this American shooting fraternity of ours is, when a letter such as mine should bring forth such a flood of offers of aid. It is certainly a wonderful testimonial to the spirit of unselfishness and good fellowship prevailing therein.

I was not, of course, able to answer all of the letters and cards received, or even most of them. But, to those whom I was unable to answer, I would like to express my very deep appreciation—via your very fine magazine.

ROBERT F. SUNSTROM

BOOKS ON LEATHER WORKING

New York, N. Y.

Editor:

Where can I obtain the books and supplies mentioned in Barlett's article on leather working which appeared last month?

NED SIMPSON

● *Writes author Bartlett: "The address of the Longhorn Company is 1109 Wood Street, Dallas, Texas.* Lacing from Start to Finish *by G. & J. Sitkin is published by Kit Kraft, Los Angeles 6, California.* Designs for Carved Leather *by Louise C. Hoefer is published and distributed by Leather Supply Company, 909 S. Hill Street, Los Angeles 15, California. The carved-leather designs by Wheeler are published by Cal-Carved Leather Industries, 271 Twelfth Street, Oakland 7, California."—Ed.*

THE ANSWER'S STILL NO!

Mansfield, Pennsylvania

Editor:

Someone asked you in the April issue whether or not he should make his own blackpowder. Your answer in the negative I highly approve.

Two friends and I decided to make our own blackpowder once upon a time. We were all in high school at the time and found a book of formulas in the library. We made our powder by grinding the components in a mortar and mixing them later. We had a key to the high school lab and we made a pound or so out of the school materials. It was winter and we had been in the habit of test-firing our old Harper's Ferry musket out of the bedroom window of one of my friends. We retired to our test room with the new powder and I was elected to load and fire the piece. The old gun was about a twelve-bore rifle with a steel ramrod about ⅜ diameter with a knob on the end. It had been the custom to ram newspaper wadding down rather solidly. We made our own caps by snipping kitchen match heads with the thumbnail, balancing the round tip on the nipple hole and then covering it with a fired .22 BB cap. I figured that our home-grown powder was somewhat inferior to the commercial grade so I used a bit more than was usual. I rammed the wadding down and was giving it a couple extra taps, for luck, when blamm, she went off. Believe me I have never experienced anything like it and I never want to do it again. The underside of my hand was black for some time as well as the underside of my chin. My thumb and first finger were bruised where the ramrod knob hit on the way up. The gun was OK. There was a dent in the floor and an unbelievable hole in the ceiling. After we picked ourselves up off the floor and had recovered our hearing, we held a council. Our main decision was to survey the damage. Upstairs we cautiously opened a bedroom door and beheld a piece of hardwood flooring standing straight up in the air. It went back into place without too much trouble. A hand-sized hole in the ceiling indicated that we should survey some more. It was some time before we found the remaining 20-odd inch piece of ramrod. It was bent in a hook around a roof joist 2 by 4. One end was cooling in the breeze among several shingles. Needless to say we all caught hell.

GORDON GARRISON

Buy on these TERMS

ON ORDERS OF $25 OR MORE, ¼ WITH ORDER, BALANCE IN 5 MONTHS. MINIMUM DOWN PAYMENT $10—MINIMUM MONTHLY PAYMENT $5.

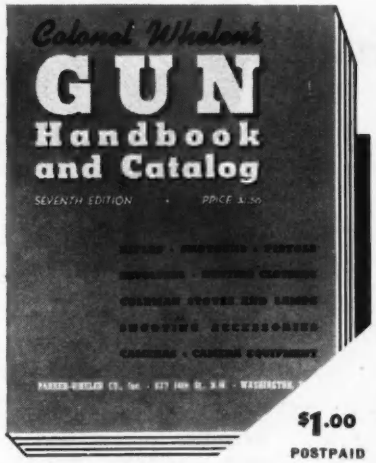
Enjoy your shooting equipment while paying for it.

For Example—

Article	Cost	Down Payment	Monthly Payment
Winchester 70	$109.50	$27.50	$17.00
Remington 37-AR	118.60	30.00	18.00
Lyman Super Target	90.00	22.50	14.00
Argus Spotting Scope	74.50	19.00	12.00
Eastman Tourist F6.3	47.50	12.00	7.00
Mossberg Spotshot	24.90	10.00	5.00

Best be sure to get Colonel Whelen's Gun Handbook & Catalog. 182 pages crammed with late models and prices plus feature articles and helpful information on selecting equipment.

Order now. Catalog costs but $1.00, postpaid, and it contains a certificate worth $1.00 on your first purchase of $5.00 or more. YOU CAN'T LOSE.



$1.00 POSTPAID

IF WHAT YOU WANT IS NOT LISTED BELOW, ORDER IT ANYWAY. THIS IS ONLY A FRACTION OF WHAT WE OFFER, WHICH INCLUDES A FULL LINE OF CAMERAS AND FISHING TACKLE.

GUNS

Remington Model 721 Rifle, .30-06 and .270 Cal.	$ 79.95
Remington Model 722 Rifle, .257, .300 Sav. and .222 Cal.	74.95
Remington Model 81 Rifle, .35 Rem. Cal.	129.95
Remington Model 141 Rifle, .35 Rem. Cal.	104.95
Winchester Model 43 Rifle, .218 Bee & .22 Hornet	54.95
Winchester Model 71 Rifle, .348 Cal.	91.10
Winchester Model 94 Carbine, .30-30 & .32 Special Cal.	62.45
Marlin Model 336 Carbine, .30-30 & .32 Special Cal.	61.45
Marlin Model 336 Rifle, .30-30 & .32 Special Cal.	72.55
Savage Model 99 EG Rifle, .300 Sav. Cal.	86.45
Savage Model 342 Rifle .22 Hornet	42.95
Sako L46 Rifle .22 Hornet	117.50
Remington Sp'ts '48 Auto Shotgun, 12, 16 & 20 Ga.	99.95
Belgian Browning Auto Shotgun, Light 12 or or 16 Ga. without rib	124.50
Extra for Raised Matted Rib	12.50
L. C. Smith Double Barrel Shotgun, Field Grade	98.95
Ideal Grade	137.15
Ithaca Model 37 Shotgun, 12, 16, or 20 Ga.	78.93
Winchester Model 52 Target Rifle, Standard Weight Without Sights	86.35
With Redfield Sights	106.95
Model 52 Heavy Barrel Without Sights	96.85
With Redfield Sights	131.25
With Lyman Sights	119.50
Winchester Model 75 Target	57.00
Remington Model 513 TR Target	57.00
Marlin 39 A .22 Cal. Lever Action	52.30
High Standard Model G-D .22 cal., 4½ or 6¾ Barrel	62.00
High Standard Model G-E .22 Cal., 4½ or 6¾" Barrel	75.00
High Standard Model G-B .22 Cal. 4½ or 6¾ Barrel	54.00
High Standard .22 Cal. Model HD-M, 4½ & 6¾ inch Barrel, Plain Grip	55.00
Colt Official Police Revolver .22 Cal. or .38 Cal.	65.00
Colt Police Positive Special	65.00
Colt Officers Model Target Revolver, .38 Special or .22 Cal.	75.00
Colt Super .38 Automatic Pistol	65.00
Colt Government Model .45 Automatic Pistol	65.00
Colt .22 Conversion Unit for .45 and Super .38 Automatics	40.00
Colt Sport Model Woodsman Pistol	60.00
Colt Target Model Woodsman Pistol	70.00
Colt Match Target Woodsman Pistol	85.00
Smith & Wesson K-22 Revolver	65.00
Smith & Wesson K-38 Revolver	65.00
Smith & Wesson Military & Police Revolver 4, 5, & 6" Bbl., .38 Cal., Square Butt	56.50
Ruger .22 Cal. Automatic Pistol	37.50

SCOPES

Bausch & Lomb Balvar—Variable Power	$ 80.00
Bausch & Lomb Baltur—2½ Power	65.00
Bausch & Lomb Balfor—4 Power	65.00
Stith DeLuxe Bear Cub, 2½ Power	55.00
Stith Bear Cub 4x Master with adjustments	85.00
Stith Bear Cub 4x Master without adjustments	55.00
Stith Bear Cub 6x Master with adjustments	100.00
Stith Bear Cub 6x Master without adjustments	70.00
Unertl Hawk, 4 power	52.00
Weaver K2.5, 2½ power	37.50
Weaver K4, 4 power	45.00
Weaver K6, 6 power	48.50
Weaver KV 2¾ to 5 power	57.50
Weaver J2.5, 2½ power	22.50
Weaver J4, 4 power	27.50
Weaver G4, 4 power	9.75
Weaver G6, 6 power	12.50
Lyman Alaskan 2½ power	60.00
Lyman Challenger, 4 power	85.00
Unertl Varmint Scope, 6, 8 & 10X	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
Unertl Target Scope, 2 inch objective, 10, 15 and 20 power	125.00
Litschert Spot Shot Target Scope, 1¼-inch Objective Lens, 10, 12, 15 & 20 power with Dust Caps and Recoil Spring	49.95
Fecker Target Scope, 1⅝ inch objective, 10, 16 & 24 power	98.50
Fecker "Woodchucker" Scope, 1.2 inch objective 4.5, 5.5 & 7 power	62.50
Bausch & Lomb Spotting Scope 20X	95.00
Freeland All-Angle Stand	11.50
Mossberg Stand	11.90

BINOCULARS

Bausch & Lomb Zephyr Light Hard Coated Lens	
6 x 30	186.00
7 x 35	186.00
8 x 30	204.00
9 x 35	204.00
7 x 50 (not Zephyr Light)	210.00
Kollmorgen "De Luxe" Mentie Monocular	49.50
Penscope 6X	10.00
Suede Case for above	1.75
Ray Ban Shooting Glasses	13.75

(Prices shown include tax)

827 14th ST. N.W. **PARKER-WHELEN CO., INC.** WASH. 5, D. C.

Dangerous Minority . . .

The Cleveland (Ohio) *Press* reports that Detective Chief James McArthur urges "a state law requiring compulsory registration of small arms and providing stiff penalties" because of the "the persistent leniency shown by judges to those arrested for carrying concealed weapons." During 1949 Cleveland police charged 132 people with illegal possession of concealed weapons but "only one was given the maximum penalty of $500 fine and six months in prison while many were freed on suspended sentences." Says Detective McArthur, "The judicial attitude toward this charge reduces the safety of citizens and complicates police work."

Obviously the Cleveland policeman feels the same way about American judicial processes and the integrity of American judges as do those outstanding proponents of firearms registration, the New York City police. Years ago they persuaded the State Legislature to so amend the Sullivan Law that no pistol permit issued by a New York State judge or police official would be valid in New York City unless and until it had been approved by the city police.

(On March 20, Mrs. Evelyn Lanier, 26-year-old mother, whom the police had failed to protect during six previous hold-ups, successfully resisted an armed robbery of her mother's store in uptown New York. Wounding one of the two hold-up men and turning him over to the police, she was, herself, taken to the police station and booked on charges of *assault* and illegal possession of a revolver! Did Mrs. Lanier's violation of the Sullivan Law 'reduce the safety of citizens', or 'complicate' the work of the police?)

Fortunately, the overwhelming majority of American law-enforcement officers are level-headed, hard-working family men doing the best they can at a difficult job. They are firm believers in the American three-pronged system of government—laws enacted by the elected representatives of the people; violators brought before the bar of justice by the police; judgment as to guilt and penalty determined by judge and jury.

But there is evident a dangerous trend in some police minds. It is a trend toward the conclusion that neither the elected representatives of the people nor judges and juries can be expected to do what is best for the public interest. It is a trend summarized by the thought that the convenience of the policeman should be given priority over the convenience of the citizen who hires the policeman. More and more frequently of late the United States Supreme Court and lower courts have had to call attention to such dangerously un-American thinking by police in connection with cases brought before the courts.

Under the American system it is the duty of the police to make arrests for violations of the law and to present a case to the court. The accused has the right to make a defense, which may bring out facts unknown to the arresting officer. If the judge then determines that the accused is innocent or that a penalty less than the maximum is warranted, it is sheer effrontery for the policeman to criticize the court.

Such statements as that made by Detective Chief McArthur in Cleveland clearly indicate the real purpose of the proponents of general firearms registration. That purpose is to enable the police, on their own initiative and on the basis of their personal ideas, to say who may and who may not possess a firearm. They seek to be the law, not to be the servants of the law.

When the policeman no longer views himself as being the servant of the people who employ him, when he feels that the legislature should enact laws primarily for the convenience of the police and by mandatory provisions tie the hands of the court and jury, he has adopted, consciously or unconsciously, the ideology of the police state. Only a few American policemen have fallen victim to that philosophy but the few are too many!

C B Lister

So you're going to AFRICA!

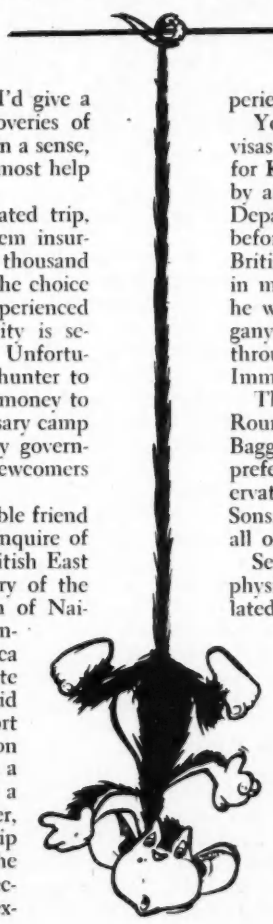
You've read plenty of African hunting tales, but here's a never-before published part of the story . . . how to go, what it costs, who to contact, what to take, where to hunt when you get there . . . by a man who has made twenty-two trips after big game, and spent a total of five years in the game fields

By DONALD S. HOPKINS

So you're going to Africa! I envy you. I'd give a great deal to relive the thrills and discoveries of my own first trip. Perhaps I can do just that, in a sense, by setting down some of the things that will most help a newcomer in making his first trip a success.

Before you embark on that long-contemplated trip, you will encounter many difficulties which seem insurmountable at your distance of ten or twelve thousand miles from the hunting ground. The first is the choice of a suitable white hunter. Unless an experienced hunter of unimpeachable character and ability is secured, your trip will be a disappointment. Unfortunately, the only requirement necessary for a hunter to set up in business in Africa is to have enough money to purchase a shooting car, a truck, and the necessary camp equipment. No authority on the part of any government agency is required and a good many newcomers are starting out.

If you do not know an experienced and reliable friend who can vouch for an African white hunter, inquire of either the Game Warden, Nairobi, Kenya, British East Africa, or of Colonel J. M. Silvester, Secretary of the East African Professional Hunters Association of Nairobi. The latter organization is the only non-government agency functioning in East Africa that has the welfare of the game, the white hunter, and the client at heart. It is a splendid outfit and deserves the confidence and support of every hunter and client. Any information given by them can be relied upon. If you are a young fellow, you will probably be happy with a young white hunter. If you are a grandfather, you will undoubtedly enjoy the companionship of an older man. At any rate, avoid like the plague a man who is not known to you or recommended by a trustworthy individual of experience and judgment. Otherwise you invite disaster.

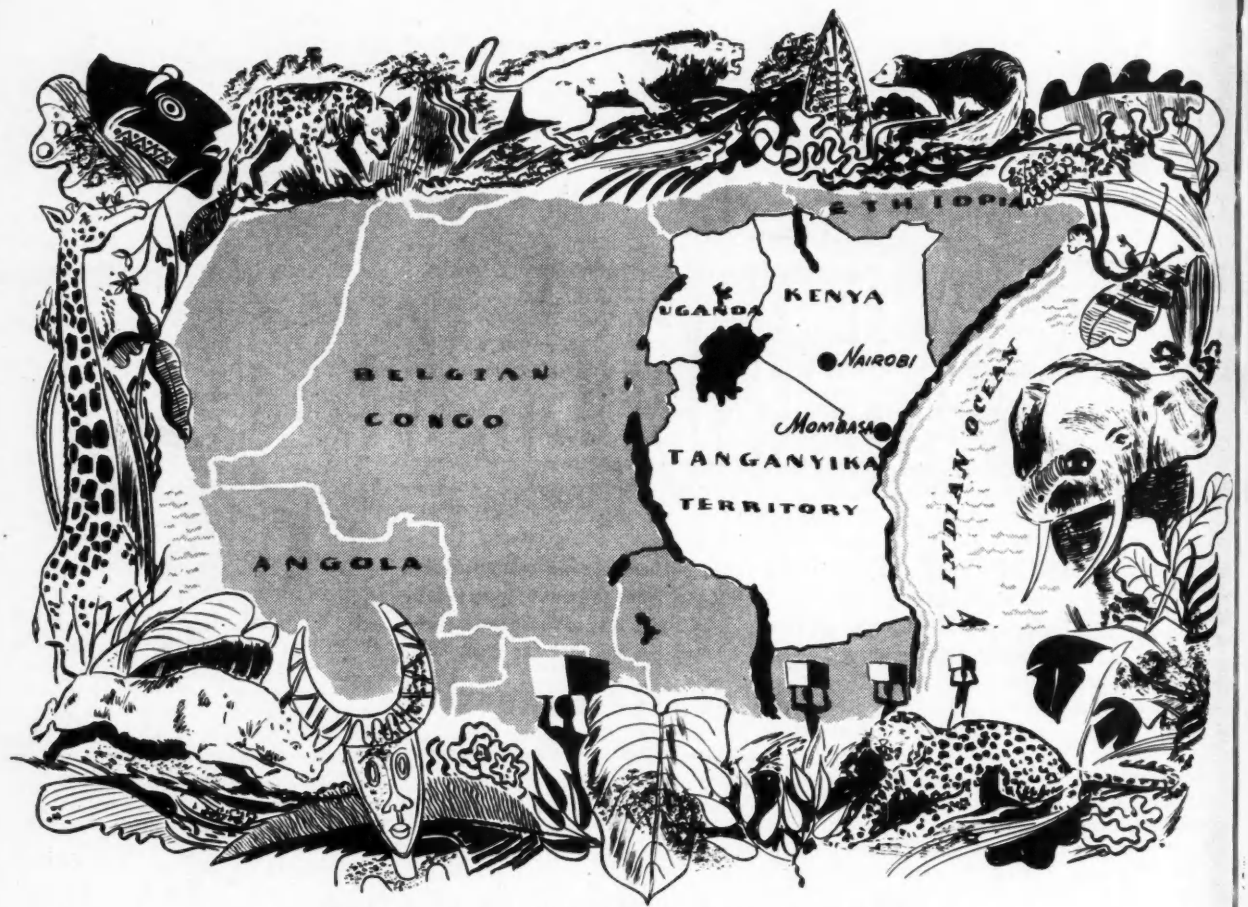


Your next chore will be to secure your passport and visas for Kenya and Tanganyika, and an entry permit for Kenya (you will undoubtedly land at Nairobi either by air or railroad). Get your passport from the State Department at Washington, D. C., several months before your departure. Turn that over to the nearest British Consul or Vice Consul (consulates are located in most of the larger cities in the United States), and he will attend to getting your visas for Kenya or Tanganyika. You can secure an entry permit for Kenya through your white hunter or directly from the Kenya Immigration Department at Nairobi.

The quickest means of arrival at Nairobi is by air. Round-trip fare from New York to Nairobi is $1300. Baggage allowance is 66 pounds per passenger. If one prefers to rid himself of the worries and details of reservations, a good travel agency such as Thomas Cook & Sons, 587 Fifth Avenue, New York City, can arrange all of the transportation details.

Several months before departure, go to your local physician and be vaccinated for smallpox and inoculated for typhoid and typhus, yellow fever, cholera, and tetanus. If you have difficulty in securing yellow fever serum, obtain some from one of the government fever clinics located at various parts of the country. A properly certified yellow fever and smallpox immunization certificate is a must. Without it you won't be permitted to land in many countries abroad. A malaria preventative must be taken before and during your sojourn in the tropics. This may be Paludrin or quinine. Paludrin is highly recommended, although it made both Mrs. Hopkins and me very nervous and affected my shooting at times.

Nairobi contains several first-class hotels,



British protectorates of Kenya, Uganda and Tanganyika are best bets for a successful hunt. Nairobi is starting point for most sportsmen

among them the Norfolk, the New Stanley, and Torr's. My own preference is the Norfolk because it is located in a quiet section of town. For the handling of your finances, take American express checks or drafts, or a letter of credit. If you prefer, a registered nonresident account can be opened at one of the Nairobi banks, such as Barclay's.

Personal equipment should be sent not later than five months before the beginning of your trip. Have it boxed well and sealed with metal strips and locks. Ship it by freight to your white hunter for the account of yourself, c/o the Express Transport Co., Nairobi, Kenya, British East Africa. Complete lists of the contents of each box and its value should be sent to your white hunter. A local customs broker can help handle the shipment to great advantage and secure the necessary gun and ammunition export permits, which can be obtained from the Department of State, Washington, D. C.

To handle your gear on the safari, purchase a substantial metal trunk. These can be purchased in Nairobi at Bullows & Roy's or Whiteaway's. In addition, take a small suitcase for personal effects (pajamas, toilet kit, cleaning materials) for use when traveling on safari.

Now, let us consider clothing. For twenty years White's Shoe Shop of Spokane, makers of famous logging boots, have been making me the most satisfactory hunting boots I have been able to secure for all types of hunting in America. For my last African trip they built me two pairs of boots ten inches in height. These were made of non-oil tanned leather, with gristle soles (gristle is a tough rubber). They are light in weight and porous in texture and are an extremely satisfactory shoe for almost all conditions encountered in Africa. In addition, a pair of oil-tanned leather boots by White's was found useful in early mornings when the grass was wet. If you prefer a lower boot, get one of seven or eight inches; but don't get them too low. There are lots of thorns to catch on your socks if your shoes are not high enough to protect them. Buy a pair of mosquito boots in Nairobi. In tsetse fly country they are invaluable. A pair of leather-soled camp slippers will be useful, too.

Buy lightweight wool socks. We wore only one pair under our boots although two pairs give more protection to the feet.

Pajamas of two weights should be taken. There should be a couple of lightweight pairs for use in the low coast country if you plan to hunt elephant in the Tana River vicinity. Two or three pairs of flannelette pajamas should be provided for use in most of your hunting camps because the nights are cool, and flannelette pajamas plus three blankets are necessary for warmth. A medium-weight wool bathrobe will be a comfort in the evening. If you belong to the distaff side, don't forget a bed jacket. For 5 a.m. tea, it is just the ticket.

Underclothes consisting of cotton vests and cotton drawers of good quality seem to be what is called for.

Three or four good quality cotton khaki shirts should be on your list. A lightweight wool shirt can be worn most comfortably during the morning chill. Get them at least one-half size larger than your regular shirts.

Light khaki sueded cotton pants and coats are the most satisfactory outer garments for general wear. Ordinary khaki garments can be purchased at various shops in Nairobi. My

own jacket and trousers, made of safari cloth, were purchased at Abercrombie & Fitch in New York City. They were very comfortable and most suitable except for color. They should be dyed a khaki color. The short safari jacket is the one to buy. Have the two upper pockets ripped off and have two shell holders of safari cloth sewn onto the coat where the pockets have been. On the left-hand side should be sewn a holder for four or five cartridges of heavy caliber such as the .465 or .470. On the right-hand side the holder for five cartridges for your light rifle should be sewn. These pockets should keep the cartridges separated and they must be low enough not to interfere with your rifle when it is thrown to the shoulder. Let half an inch of cartridge case protrude from each individual holder so that the cartridge may be easily removed. The individual holder must be snug around each cartridge case so that the cartridge will not fall out.

By all means include a couple of pairs of light leather gloves in your outfit. You will bless them when you hit tsetse fly country. A silk scarf for your neck will give added protection from these winged devils whose bite feels like a needle prick.

For use in the cool of the dawn, a sleeveless wool vest and a wool jacket are necessities. In addition to these, a full-length wool-lined trench coat will be found most useful when one is traveling in the open shooting car or during a heavy tropical downpour. A lightweight full-length raincoat should be part of one's kit.

The hat problem is solved by the use of a regular western hat of good quality. A Stetson or a Resistol of 3X or 4X Beaver in Belgian Belly color with 3½- to 4-inch brim is the proper head covering. A leather head strap will help to keep it in place in windy weather or when traveling in a car.

Even if you are not a camera fiend, take one good still camera and one movie camera with plenty of color film for the latter. Be sure to equip the movie camera with a three-inch telephoto lens. A haze filter is invaluable in Africa. Use Kodachrome (color) films of the daylight type in your movie camera. A substantial leather case for the movie camera and a good gadget bag in which to carry the still camera and extra films should be taken. An exposure meter such as the Norwood or Weston is, of course, a necessity. If one desires to purchase films in Nairobi, they can be bought at House & McGeorge, Government Way, Nairobi, or at J. S. Karmali Ltd., Portal Street, Nairobi. They should be ordered well in advance of your arrival.

Among incidentals I would recommend: An electric shaver that can be attached and used on a car. A pair of fine tweezers. A magnifying glass with which to extract thorns. Dustproof gun cases that are not too bulky and can be kept on the guns while they are in the racks. A fleece-lined case will not do well here; a thinner one with a lining of light felt is much better. Leather belt pockets for cartridges of various sizes. Two-cell flashlight and Totelite. A good supply of twenty-five cent pocket books to read when loafing in camp. A toilet kit with suitable toilet articles and a small assortment of one's own favorite medicines. A good but not bulky binocular. And don't forget gun oil! All English cartridges use corrosive primers, and an effective solvent is necessary.

Nairobi is a city of over 100,000 population, most of which is Indian and native. All ordinary equipment, such as flashlight batteries, toilet articles and the like, can be secured there, as well as cosmetics of most makes. Nairobi has two first-class sporting goods stores, May & Co., and Shaw & Hunter.

You should read and possibly take with you several books on Africa. Some of the most informative are Maydon's *Big Game Shooting in Africa*, Lyell's *Spoor and Tracking of African Game*, Hamilton-Stevenson's *Wild Life in South Africa*, and Roberts' *Birds of South Africa*.

Now we can get to the real gist of this hunting matter—the type and caliber of gun to use. My first and last advice is: Don't overburden yourself with weapons. Take two good light rifles equipped with telescopic sights, a .22-caliber rifle, and one heavy double rifle, and you are all set. If you do not own a heavy double rifle you can probably rent one from your white hunter. This, however, is your East African Life Insurance, and you should have a big rifle that fits you well.

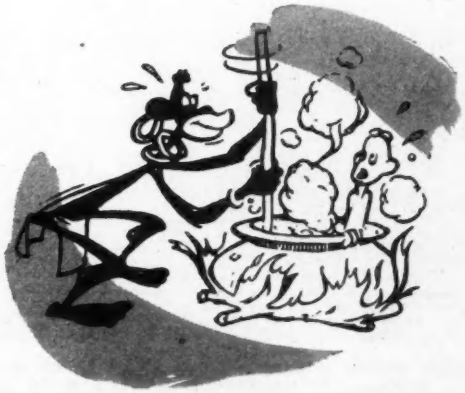
It surprised us to find how long is the average shot on African plains game. My guess is that shots at kongoni, topi, zebra, and wildebeeste on the open plains average close to two hundred and fifty yards. The game seems to be willing to let one get about that close and then will move off. For that reason one needs a flat-shooting rifle equipped with a telescope sight of 2½ power. Most African game is exceptionally tough and much more tenacious of life than North American game. Consequently a fairly heavy bullet should be used so that it will drive through bone to the life of the animal without breaking up. One must attempt to hit the shoulder, neck or spine to knock down any of these animals and keep them down. The high shoulder shot works beautifully and is most merciful.

The minimum light rifle I would recommend would be a .30-'06 with 27- or 28-inch barrel to use either the 180-grain hollow-point Western bullet, the 172-grain Western Tool and Copper Works bullet, or the 220-grain Western tip-of-lead boattail bullet, or the 220-grain Remington Core-Lokt bullet. The 220-grain Western bullet is especially suitable if it can be handloaded to higher than normal factory velocity. For a fellow who desires something with a little more oomph, the .300 Magnum is a good choice, but have it built with a 27- or 28-inch barrel for maximum accuracy and velocity. The .375 Magnum with 270-grain bullet should handle the light game situation, but either of the first two rifles is adequate and much more pleasant to shoot.

Whatever gun you choose, be sure to take a pair so that in case one is damaged, a spare will be available. If recoil bothers you, have the guns equipped with rubber recoil pads since your shooting will be done in a light shirt or jacket. A shotgun is of little use and should be left at home.

Take some solid bullets with round nose with you for your light rifle. These will be invaluable for the odd rhino you may encounter when out after a lion or an impalla. Where you can get them, I don't know. For months I have been attempting to get some in 7-mm. and .300 Magnum caliber in Great Britain, Europe, and America, but without success. Five or six hundred rounds of cartridges for the light rifle should be an ample supply if you are a good game shot.

For the heavy game (buffalo, rhino, and elephant) you will need a heavy rifle. The big rifle will (*Continued on page* 39)



One of One Thousand

By BILL DEPPERMAN

FOR ONCE, gun bugs are going to learn about a famous rifle of the 1870's from a Hollywood movie.

The rifle is the 'One of One Thousand' variety of the Model 73 Winchester, the first premium-accuracy rifle in lever action produced by Oliver F. Winchester. The movie, which has a rifle instead of a flesh-and-blood actor as its hero, is "Winchester 73", now before the cameras of Universal-International. It probably will be shown in theaters in the fall or winter.

As most historically-minded gun lovers know, the Model 73, introduced in 1873, was the third Winchester if you count as first the Henry which was first manufactured in 1860 by O. F. Winchester's New Haven Arms Company. The first rifle to bear the Winchester name was the Model 1866. This rifle was stronger than the Henry and had a loading port on the right-hand side of the receiver.

Its successor, the Model 73, put Winchester on the map. In general it followed the design of the Model 66, but it was the first center-fire rifle developed by Winchester and substituted iron for brass in the receiver until 1884 when receivers were made of steel. It was introduced in the famous .44-40 caliber, which gave plainsmen and hunters the one thing they wanted above all else in a rifle—center-fire firepower. Its accuracy and shocking power were better than most other rifles and about as good as the best. It was said of this rifle that you could load it on Sunday and fire it all week.

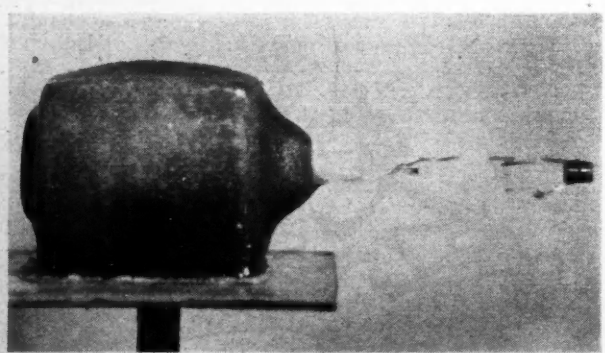
The Model 73 almost immediately became the favorite of the Western Plains. It has frequently been called 'the rifle that won the West', from the fact that it was used by almost every scout, hunter, and plainsman of that era. Its use by Colonel William F. Cody also gave it the name 'Buffalo Bill Rifle'.

The tremendous popularity of the Model 73 in .44-40 caliber is no better attested than by the fact that Sam Colt chambered his famous six-shooter for this cartridge so that a Westerner could use the same fodder in both his hand and shoulder gun.

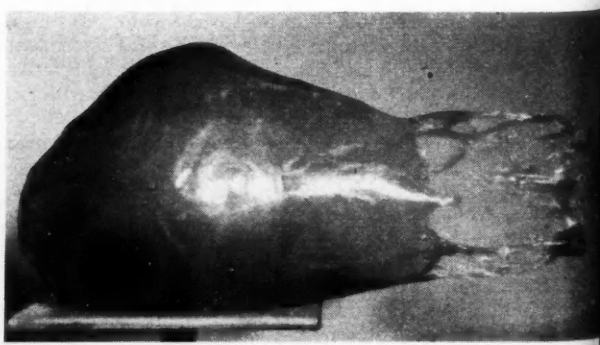
Later, Winchester added other calibers in the Model 73. In 1879 the .38 was added, in 1882 the .32, and in 1884 the .22 short and long rifle rimfire calibers made their appearance. There are some .22 extra-long rimfire models which were made on special order.

These facts are quite well established, but what the movie "Winchester 73" introduces for the first time to a lot of gun collectors is the 'One of One Thousand' variety of the Model 73.

This variety was described in the 1875 Winchester catalog as follows:



These photos compare shocking power of 200-grain soft nose bullet fired from Winchester 73 (above) with .270 and .30-'06 projectiles



Here 130-grain Silvertip in .270 caliber rips through gelatin in photo taken in Winchester lab. Exposure was 3/1,000,000 of second

"The barrel of every sporting rifle we make will be proved and shot at a target, and the target will be numbered to correspond with the barrel and be attached to it.

"All of those barrels that are found to make targets of extra merit will be made up into guns with set-triggers and extra finish and marked as a designating name 'One of One Thousand', and sold at $100.00."

(It should be noted that not all of the 'One of One Thousand' rifles had set-triggers.)

It is one of these top-accuracy versions of the most famous rifle of its time that Hollywood has selected as the hero of one of its super-westerns.

From 1873 to 1924, when Winchester discontinued the Model 1873, a total of 720,610 Model 73 rifles was produced. Of this huge number only 124 were of the 'One of One Thousand' variety.

DO YOU OWN ONE?

Author Bill Depperman hopes to compile a census of surviving 'One of One Thousand' rifles. If there is one in your collection, drop him a line, in care of the Rifleman. Since only 124 were produced, the 'One of One Thousand' variety of the famed 73 is sure to become a top American rarity

Very few people of this day have ever seen one of these rare rifles. You can tell it by the words 'One of One Thousand' in script engraved on the top of the barrel just ahead of the receiver.

On this 75th anniversary of the introduction of the 'One of One Thousand', the author is attempting to locate as many of those 124 rifles of this version of the Model 1873 as may still be in existence. If you know of one, please advise the author, care of the RIFLEMAN. He will also be interested in learning any details you may have about the rifle's history or past or present ownership.

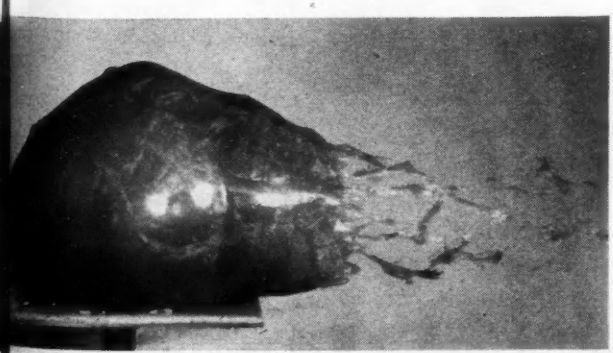
No one at Winchester will hazard a guess as to how many of these rifles may still be in existence, but if you have a gun collection, you might check it over and see if you have one.

If the story of "Winchester 73" is a fair sample of what happened to the rest of Winchester's 'One of One Thousand' rifles, the chances are there are few left. The motion picture built around this rifle opens with a shooting match at Dodge City, Kansas, on July 4, 1876. The prize is a 'One of One Thousand', but Jimmy Stewart who wins it in a pre-Creedmoor competition, doesn't lay hands on it except for a brief instant, until he has chased it all over the West. The villain steals the rifle right after the match and from then on, it passes from one hand to another as it's lost at poker, stolen by more outlaws, sold to Indians, and so on, with Jimmy Stewart always just a lap behind until the final bell.

Before Winchester shipped the Model 73 that stars in this movie, it turned the rifle over to Jack Lacy, its well-known marksman and gun tester. Jack's 100-yard target did the rifle proud. He was so impressed with the rifle's accuracy that he fired a five-shot group which disclosed a maximum spread between shots of 1⅜ inches, more than respectable shooting even for today's barrels and bullets.

Symbolic of all Model 73 rifles is the one which 'goes

In Universal-International's forthcoming feature, "Winchester 73", top billing is shared by Jimmy Stewart and his '73



This 180-grain bullet from .30-'06 does even greater damage. This and .270 show shock at 150 yards; .44-40 was 100 yards from muzzle

This is the Winchester 73 which is featured in the movie

home' on July 4th when Colonel Walter F. Siegmund presents a Model 73 actually used by Colonel William F. Cody to the Buffalo Bill Museum at Cody, Wyoming.

Colonel Siegmund, a collector of historic firearms and sales manager of Olin Industries, will make the presentation of his rifle to Mary Jester Allen, niece of Colonel Cody and founder and director of the Museum. This rifle has particular interest because it bears the autographs of two outstanding heroes of World War II, both of whom found inspiration in the life of Colonel Cody. They are Fleet Admiral Chester W. Nimitz, naval hero of the war in the Pacific, and General Jonathan M. Wainwright, the hero of Bataan.

Colonel Siegmund's rifle will be presented during the Frontier Days celebration in Cody after which it will repose in the Museum as a perpetual reminder of one of the most stirring epochs in American history. ◆ ◆ ◆

Action of the film involves the rifle's travels throughout old West

Jack Lacy, famed Winchester test shooter, targeted rifle before it was shipped to Hollywood. This 100-yard target measured less than 1½ inches

Legislative BULLETIN

A MONTHLY REPORT OF CURRENT LEGISLATION

AT PRESSTIME, only four state legislatures were still meeting in 1950 General Session; they were Massachusetts, New Jersey, Rhode Island, and South Carolina. Once again we have weathered the storm. No bad antigun bills have been passed; several good, forward-thinking measures have been favorably considered. Sportsmen have done a good job when advised of a threat of bad legislation and have proven again that elected lawmakers care very much what the voters think.

ILLINOIS: Ex-NRA President, Colonel Francis W. Parker, has attended several meetings of the Cook County Crimes Prevention Committee at which was indicated a willingness to work with the NRA in the drafting of a firearms bill to be submitted at the 1951 state legislature. If these plans materialize, it should be possible to reach an agreement satisfactory to the sportsmen gun owners as well as to the police.

KENTUCKY: House Bill 24, reported in March. After amendment as reported, this was a good concealed weapons bill and improved the present situation in Kentucky. *Action:* Passed House and Senate; vetoed by the Governor.

House Bill 168, reported in March. *Action:* Died when legislature adjourned.

MASSACHUSETTS: House Bills 1376, 1377, 1767, and 1768, reported in March and by Legislative Bulletin, are all bills affecting manufacture and sale of air guns and firearms to minors. This legislation is backed by the Massachusetts Chiefs of Police Association, which has been most anxious to avoid doing any harm to organized shooting or the junior training program. *Action:* All four bills substituted by House Bill 2428, written by the Police Chiefs Association in cooperation with the National Rifle Association. House Bill 2428 would prohibit the sale of firearms or air guns to minors under the age of eighteen, without the written permission of the parent or guarandian. *Action:* Referred to Military Affairs and Public Safety Committee.

House Bill 36, reported in March, would amend the hunting license law to permit minors between fifteen and eighteen to hunt when accompanied by a licensed adult. *Action:* Referred to Joint Conservation Committee.

House Bill 40, reported in March, would amend by restatement and clarification the existing law which prohibits the use of snares, searchlights, motor vehicles, and certain types of firearms for hunting purposes. *Action:* None.

House Bill 41, reported in March, would regulate the discharge of firearms from or near paved highways or within five hundred feet of any dwelling. *Action:* Reported to next annual session.

House Bill 678, reported in March, would amend the game code to permit licensed hunters to carry a shotgun or .22-caliber rifle after dark for the purpose of hunting raccoons. *Action:* Reported to next annual session of legislature.

House Bills 42, 157, and 158, reported in March, would increase penalty for negligent use of a firearm. *Action:* None.

Senate Bill 319, reported in March, would regulate the sale of firearms to minors. *Action:* None.

NEW JERSEY: No change from the March report.

NEW YORK: Legislature adjourned March 23, 1950. Assembly Bill 941, reported in March, would amend the present law and make the illegal sale of a firearm a felony rather than a misdemeanor. *Action:* Died in the Assembly.

Assembly Bill 972, reported in March, provides that in counties of less than 500,000 photographs and fingerprints of applicant for sale of firearms shall be submitted on original application, but only at five-year intervals for renewals. *Action:* Passed Assembly and Senate and vetoed by Governor.

Assembly Bill 1861 (also Senate 1599) not previously reported, provides that licenses to carry firearms may be issued to convicted felons and persons convicted of crimes of violence at the discretion of the police. *Action:* Passed Assembly and Senate and sent to Governor.

Assembly Bill 2291 (also Senate 2009) reported last month, would substitute new language for present Sullivan Law containing possible relief from some present bad features of the law. *Action:* Died in Assembly.

Assembly Bill 2470 (also Senate 2264) would prohibit issuance of hunting license to persons under seventeen years of age unless they present certificate signed by a person qualified to give instruction in methods of handling firearms to avoid accidents, if they have not been issued previous license. The Conservation Department may designate the National Rifle Association to give instruction. *Action:* Passed Assembly and Senate and signed by Governor.

Assembly Bill 2853 (also Senate 2387) would prohibit the carrying of a loaded rifle or shotgun in New York City without a license. *Action:* Died in the Assembly.

Assembly Bill 2854 would prohibit the carrying or possession of pneumatic weapons by persons over sixteen years of age unless licensed. *Action:* Died in the Assembly.

Assembly Bill 3209 would exempt from licensing provisions for concealed weapons those transported as merchandise if transporter notifies law-enforcement officers of name of consignee and place of delivery, and withholds delivery for reasonable time for investigation. *Action:* Passed Assembly and Senate and sent to Governor.

Senate Bill 325 (also Assembly 2204), reported in March, provides for possession of firearms without license in the case of ex-servicemen whose souvenir weapons have been rendered inoperative. *Action:* Passed in the Senate and Assembly but vetoed by Governor.

Senate Bill 2293 (also Assembly 3193), reported last month, would delete the word 'concealed' from the existing law which prohibits the carrying of a handgun with ammunition without a license. This is another example of a police effort to tighten an already binding law. *Action:* Passed in Senate, died in Assembly.

Senate Bill 2386 would prohibit possession of air gun or air pistol without written license. *Action:* Died in Senate.

RHODE ISLAND: House Bill 694, reported last month and by Legislative Bulletin, has been replaced with a substitute bill which would include both *rifles* and *air guns* in the definition of the word 'firearm' as used in the Rhode Island "Firearms Act" and would change the age limit for purchase and possession from 21 years as reported last month to 15 years. Also, would make all junior clubs, camps, school marksmanship programs, etc., subject to police approval. *Action:* Passed in House and Senate and sent to Governor.

House Bill 898 would create a seven-member commission to study the possible ill effects upon the minds of juveniles, resulting from the "brutality in playdom," of toy guns, certain types of radio and movie programs, comic books, and certain magazine illustrations. *Action:* None.

By A. DONALD NEWELL

THERE'S MORE THAN ONE WAY TO SKIN A CAT—AND THE SAME APPLIES TO A GUN STOCK. HERE ARE SOME IDEAS FROM THE AUTHOR OF "GUNSTOCK FINISHING AND CARE" (SAMWORTH, 1949, $4.50)

GRAINING

Photographs by Earl Pulve

1 In the treatment of wood surfaces to enhance beauty possibly the least familiar field is that of 'flame graining'. In this photo the author is employing a gas-air torch to bring out the grain structure of a wood panel. The torch is one which normally is used for silver-soldering and heat treating, but it works admirably here. Actually, almost any source of heat which may be concentrated over a small spot or area will work as well. The small gasoline or alcohol torches sold by hardware stores for a couple of bucks do a fine job. The flame is small and may be moved from spot to spot as needed. Large pressure-type burners, such as plumbers use, may also do the job, but they usually give out a bit too much flame and heat. By the judicious use of sandpaper excellent results may be had however.

The setup (right) is merely to show the operations involved in flame graining. You can see where the flame has traced a path on the surface (the darkened areas) and where I stopped to turn off the gas so the picture could be shot. Normally, I would have continued darkening the wood along the paths I had previously chosen.

As the picture shows, I am lightly burning whatever natural pattern shows in the wood. Naturally, I am not applying any artificial graining pattern here; all I am doing is darkening and bringing out the already existing pattern. This is what I term 'enhancement'. This enhancement will improve the appearance of any wood, whether it be gunstock or furniture, 100 percent. Of course, you can always overdo it. If you allow your flame to linger too long on any spot, it will be turned a deep black and no amount of sanding will remedy the situation. This is strictly a brown color which is developed, not a burnt black.

2 This is a section of a walnut block which was flame grained. This is a true picture of [illegible] term 'enhancement'. As you can see, the actual, natural pattern of the wood has [illegible] emphasized by the darkened sections. The coarser-grained areas of the wood invariably [illegible] the color before smaller pored sections. This is a help in using a flame as you can more [illegible] less 'flow' your flame along the pattern already in the wood and the color will come out [illegible] you want it to. The light-colored section at the end shows how the wood looked without [illegible] treatment whatsoever.

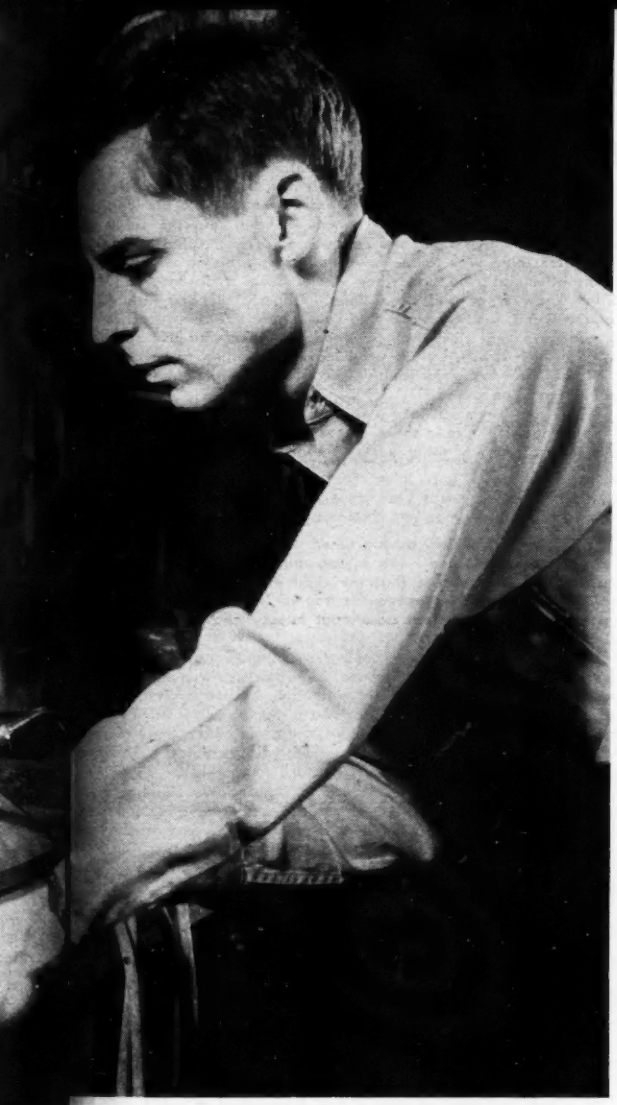
At first it's a neat trick to use any kind of a flame on wood without having the whole dur[illegible] thing go black on you. You have to develop a sort of 'feel' and when the wood turns just [illegible] color you want then you have to get out of there, but quick! It takes only a fraction of [illegible] second for the wood to go from a nice brown to an unpleasant black. The most unpleas[illegible] thing about the blackening is that the only way in the world to eliminate it is by sanding [illegible] scraping. The black is carbon, mostly, and you can bleach till the cows come home but [illegible] don't do a bit of good.

This piece was given a simple coat of boiled linseed oil to bring out the burned-in figu[illegible] This trick seems to work best in flame graining, but can be used on other types of graining [illegible] Such boiled oil (in one thin coat) will not bother adhesion of following coats of varnish [illegible] lacquer if you allow 36 hours to dry.

3 Here is another piece of walnut which can be likened to a fore-end. I've taken my [illegible] and gone crosswise to the grain, as you can see. I've made no attempt to follow [illegible] grain, but have tried to give an idea of what can be done in the way of tigertail pat[illegible]

It's much harder to work one of these patterns than it is to go with the grain. No m[illegible] where you touch the wood with the flame you leave a mark, and if you don't get the [illegible] pattern the first time you can't blend it in with the natural grain and make like it was [illegible] in the first place. You're stuck with it.

The best thing to do in trying this is to get a picture of a successful cross-graining [illegible] lightly mark out in pencil the general path you want to follow. Even better, of course, [illegible] have an actual stock in front of you so you can get an idea of how the natural grain and [illegible] artificial cross grain meet each other and the visual effect which results. Even a piece [illegible] picture of a piece, of wavy maple will give you a decent pattern to duplicate.



5 This is a 'before-and-after' shot of a fore-end which has been treated with a regular aniline, non-grain-raising stain. The stain is a commercial material which can be purchased at any paint store or cabinetmaker's supply house. It is usually in liquid form and is to be thinned somewhat with a special solvent. As it comes from the can it is pretty concentrated and will darken the wood to beat the band.

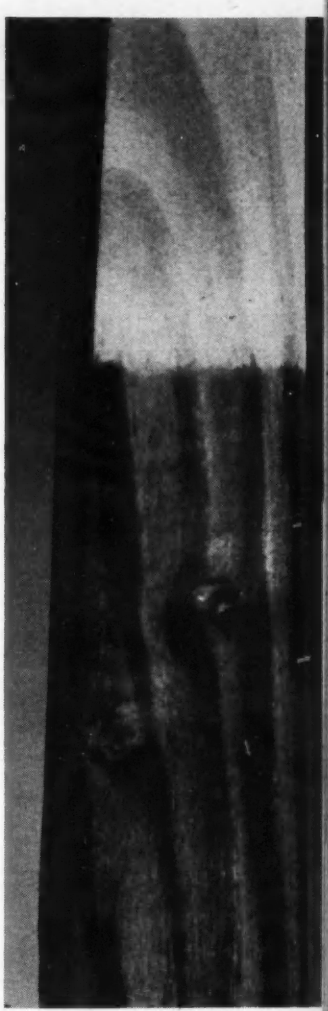
Take some of your Hotsy-Totsy stain, preferably a mixture of yellow, red, and black, to give you a rather brownish-black color (on a piece of scrap wood), and spread it out in a saucer or coffee-can lid.

Now take a piece of cotton rag, wad it up into a ball, and dip it lightly into the pool of stain. You want just enough to wet part of the rag, but not enough to make a sloppy, dripping handful. Now lightly pass the wetted rag over the wood following as truly as possible the natural grain pattern. You will find that it soaks into parts of the grain more quickly than into others. That's fine. It's just what you want. This selective absorption of the stain is exactly what brings out the natural appearance.

The whole thing lies in following the natural pattern with the rag, allowing it to soak in. Then take some very thin stain (thinned with solvent, that is) and rub vigorously over the edges of the accentuated pattern. This thin stain blends the more deeply colored sections into the uncolored wood adjacent to it and gives a very natural appearance.

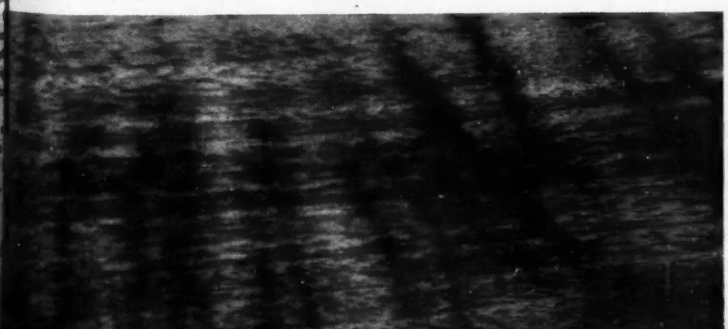
Remember, it is very important to keep everything looking as natural as possible. If you're going to slap spots of color hither and yon without regard to existing wood structure it's going to look like your little boy was playing with ink and dribbled some on the stock. You can fake this stuff as much as you like, but you must conform to already existing lines and patterns. If you follow those you can place just about any amount of color anyplace you like and still make it look good.

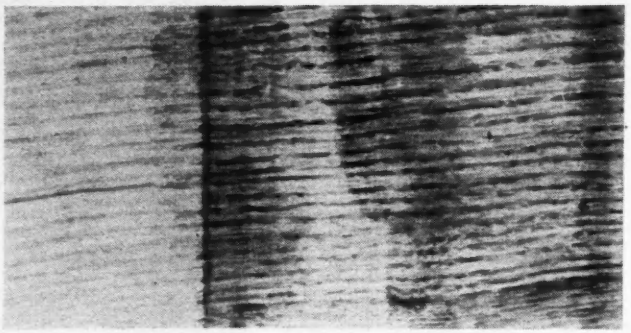
A fine striping brush is excellent for flowing stain where you want it.



4 This shot shows a fairly decent piece of wood which has been grained both with and across the grain. As you can see, the natural grain was darkened enough to emphasize the pattern at one end, and at the other a few practice runs across the grain give the opposite effect. Actually, if the cross grain paths were close enough and numerous enough they would give both effects. Because they would be close together they would, in effect, highlight the grain through nearly the whole length of the panel. At the same time, there would be sufficient cross grain paths evident to give a more-or-less tigertail effect.

Sometimes you will find that you have overdone a certain area. Maybe it is too dark, or possibly it is too extensive. It may cover not only natural grain lines but also some of the 'lands' between the grain lines. If this is the case you can sand lightly with the grain until the color is lightened sufficiently. Over grain structure it won't take much sanding to remove a great deal of color, but over the solid 'land' sections it takes somewhat more abrasion. You probably won't get all of the color out of the 'lands' but you will get enough to make it appear as though it were a naturally darkened spot, rather than a burned-in mistake.



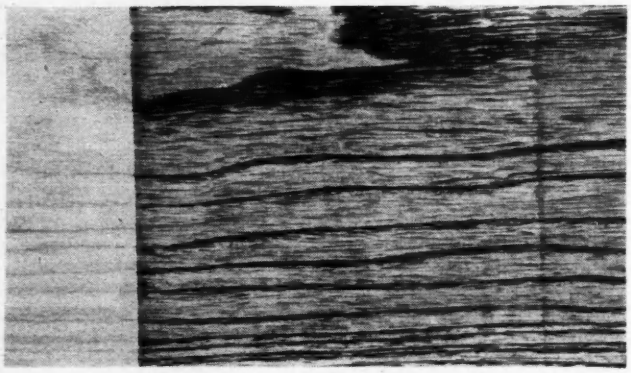


6 Here is something I don't like, have never used myself, and don't intend to use, but it should be mentioned. One end of the pane shows the untouched wood. The adjacent narrow section shows where a regular aniline stain was haphazardly streaked onto the wood, and the larger section shows how it was blended into the surrounding areas with thinned stain and sandpaper (after it dried). Obviously the whole thing was to see how well cross graining could be done.

The effect isn't too bad when viewed from a distance and if you didn't know what had been done. Properly blended into the unstained wood, such cross graining can be made rather attractive. You should have very close-grained wood, however, and this open-pored wood (which is ash, by the way) leaves something to be desired.

Walnut isn't too good for this sort of thing and mahogany is also rather too open pored.

Maple and birch will take it to an extent, but there are other ways of bringing out figure in those woods which are so much more attractive that this sort of thing is very seldom used.



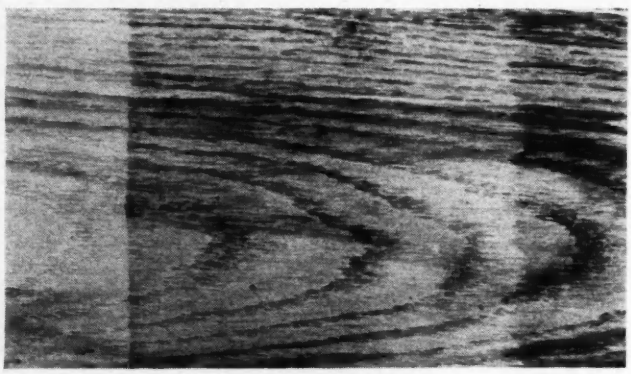
7 This shot is of very open-grained wood. Obviously, one end has not been touched. The middle and other ends were treated exactly the same except that the right end has a light coating of boiled linseed oil on it above the treated wood. In some cases such an oil film will bring out additional beauty and detail, but here it does very little.

The treatment consisted of taking a regular wood filler and tinting it dark brown with burnt umber. Ordinary powdered umber will stir into such a heavy-bodied filler readily. Then the filler was wiped into the pores with a rag and allowed to set for a few minutes. After this it was rubbed off the wood across the grain with a piece of burlap.

This treatment leaves a certain amount of the colored filler in every pore and accentuates the wood structure very well.

Such a treatment is best for woods which have continuous pore lines, such as the one above. For those which have a lot of large pores, but are spaced individually over the wood, it will also work but will not bring out any appreciable pattern.

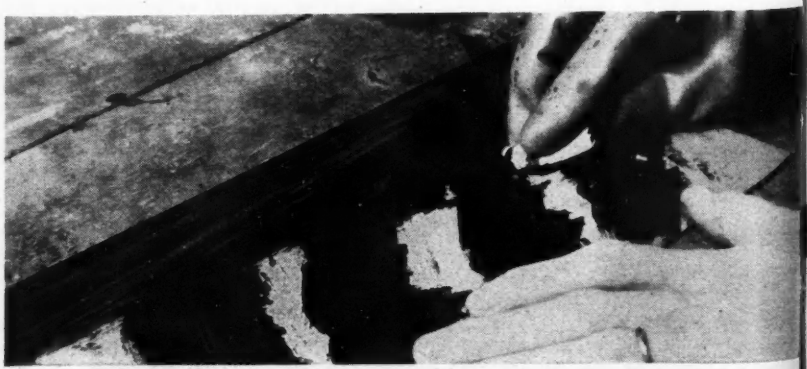
Walnut will usually be adaptable to this operation. Even the poorer grades of wood can be made very presentable.



8 This is an example of possible usage of a chemical-type stain. The material used was potassium permanganate, available at any drugstore. It comes in small purple crystals, and is dissolved in water for use. When a water solution of permanganate is spread out on wood a chemical reaction takes place and the final color is anywhere from a light yellow-brown to a dark almost-black, depending upon the concentration of the permanganate solution. The more crystals are dissolved, the darker the resulting color.

On a stock, it is advisable to raise the grain first, then to come along with the staining. When the color has deepened to a point where you want it, take some fine sandpaper and go lightly over the surface. In this manner you can make lighter or darker spots or areas, as you see fit, and the action of the paper will nearly always give such a blending at the edges that a very natural-appearing darkened area will result.

The dark area at the right is the same as the center except it was given one thin, rubbed coat of boiled linseed oil. This often brings out a great deal of figure otherwise lost.



9 This one shows the staining of a wood panel with permanganate. The beaker holds the solution and the little rag ball between my fingers is used as a swab.

This panel is being stained completely, after which sanding will remove all the color I don't want.

Personally, I don't see using a water-based material on gunstocks. Furniture is OK, maybe, but the average stock has a pretty tough time of it trying to keep out ordinary atmospheric moisture and there's no use introducing this extra water which will soak in very quickly and deeply. The stuff has to soak in to get any penetration at all, and once it's in there you'll never, never get it out.

This operation should be handled on bare wood. It will not take too well on wood which has a good moisture-resistant coating in it or on it. For that reason use on fore-ends will nearly always start at least a little warping. Why the dickens all the fuss about kiln-dried stocks if you're going to toss on a couple cupfuls of water right where it will do the most harm?

Incidentally, this process is not limited to permanganate. It works exactly the same way for acids, salts, and other water soluble chemicals, but the same arguments hold true. If you've got water present I don't want it and darned if I'm going to advocate its use.

10 This one is my piece de resistance. It's a nice little panel of bird's-eye maple showing possible treatments. The plain section has had no treatment. It's been sanded nice and smooth, of course, just as a stock would be. Now what do we do? There are two alternatives. We can put on something which will bring out the natural figure, or we can place an artificial figure on the wood. The second is discarded immediately. There's no point in getting nice wood like this and hiding it.

So let's try a couple of things. First, the lower right section had a thin coating of black-brown aniline stain wiped into it.

The upper right-hand section was treated with a very thin naphtha solution of asphaltum. This stuff is really the ticket! It brings out everything the wood has to show and then some. There's no need for description. You can see it for yourself. This asphaltum works just as well on wavy or flame maple and I've discarded nearly every other system for accentuation of figure on such woods.

I happened to have some dissolved asphalt in my stock of odds and ends, but you can get it by going to the nearest paved road and prying a little out from between the concrete sections.

If you have nothing else you can stick it in a bottle with some gasoline out of the old jalopy, but don't be smoking when you do it. In the course of a few hours the gas will be a dark brown color. Filter this solution through a piece of cotton and you are ready for business. A little of this goes a long way.

The operation consists simply of dipping a rag in the liquid and then rubbing it over the wood, making sure all areas are equally well covered. Then allow it to dry and smooth off with fine sandpaper. It doesn't hurt to go back over the surface with a rag moistened with gasoline or cleaning fluid. This will remove any excess from the surface, but won't harm absorbed material.

11 Here we come to some real honest-to-goodness graining! There are two ways of attacking this problem, in applying it to stocks or small wood sections. If you will look at the next picture first you will see what I mean. In shot number 12 the bare wood is peeking at you at the extreme left. Next you will see where this panel has had a coat of primer and then was sanded off to make it as smooth as possible. The third strip was a light gray-brown enamel. The purpose of the enamel is to make a pleasant contrast with the graining ink to follow. Last, but not least, the body of the panel is shown with a simple applied figure, done in graining ink.

This graining ink is made as follows: take a couple spoonfuls of ordinary spar varnish and mix it with a bit of burnt umber and drop black. Both of these powders are available at painter's supply houses.

Now take a little varnish thinner (turps or mineral spirits will do) and thin the ink (which I shall call it from now on) so that it is mobile and rather liquid.

The tool is composed of a four-inch square section of the tail of an old sweater or piece of burlap. The coarser the cloth the better will be the results. No matter what the cloth is, for Pete's sake have it washed well and dried before use. If you don't take that precaution you will find the dried surface full of little hairs.

Now take the wadded cloth and dip it into the graining ink. Dab quite a bit of it here and there in streaks and spots. It makes no difference what the pattern is, but be sure to get enough on the surface.

When you have the ink on the surface take the same rag and smear it lengthwise, the way you want the finished grain to go. Go ahead, just slide the cloth along and make some streaks. Finish the whole surface that way. Now come back with the rag and make a few swirls here and there by twisting the rag a quarter turn to the right or left.

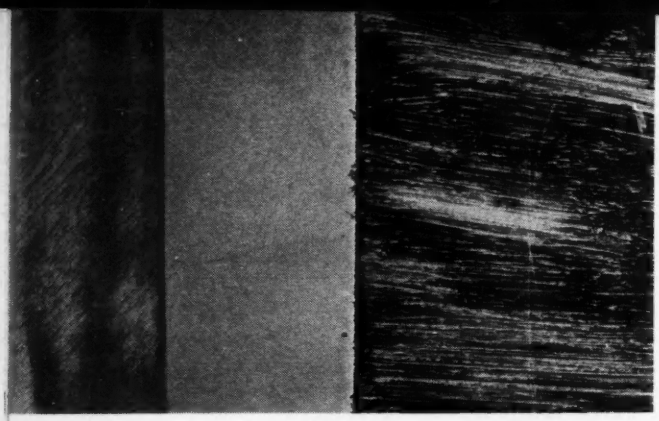
Now lift the rag off the wood. Make a swing backwards and forwards in the air. Repeat it, but this time in the middle of the swing allow the rag to touch the surface momentarily at the point where the swirl and the straight 'grain' meet. This will blend the two together and it won't look so artificial.

Almost any other manner of blending the two types of grain will show where you have touched the wood and lifted the rag up again.

If you find that your ink is drying out on you it may help to dampen the rag once in a while with thinner or even thinned-down boiled linseed oil. This allows the ink to remain liquid.

When you have gotten your stock about where you think it should be then let it dry overnight. Now it should be hardened enough to coat with a finish of some sort.

Probably the best finish to use is a good spar varnish. Brush on two coats, allowing drying between each, of course, and then take some fine pumice and rottenstone and cut down the gloss by rubbing. This will give you a fine luster.



12 This shot will give you an idea of the way a simple, nearly straight grain will look close up. It doesn't look like much here, but on a stock from a foot or more distance it looks very good. You can see the path the graining tool took.

This may give you some idea how opaque the ink should be. Even on thin areas the ink hides the background color almost completely.

Ground colors (enamel directly under the ink) may be almost any shade, depending upon what the finished panel is to look like. For walnut effects, the ground color should be anywhere from a light gray-brown (as this one is) to a dark red-yellow.

Any enamel will work for this ground. You can forget the primer, if you wish. Take your stock, sand it well, and put on a couple coats of enamel. Smooth those down with fine sandpaper and see if the grain or pores are pretty well filled. If they are then take some tinting pastes (available at paint stores) and tint that same enamel to whatever shade you want.

13 This shot shows a bit more intricate pattern than the straight grain in picture No. 12. At least, it will be when I get it finished.

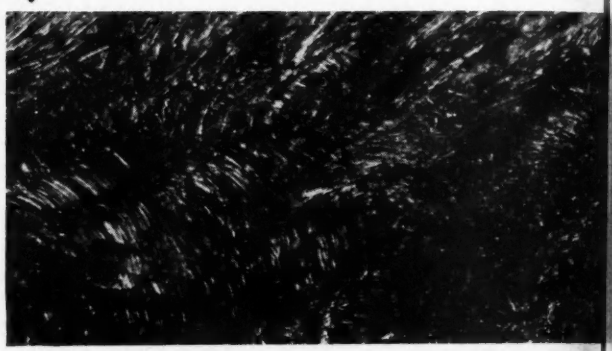
This pattern I am working with is the start of a fairly nice crotch effect. I have made sure of my central dark streak in the finished pattern by smearing a streak of the ink in the center of the path I wish the crotch to take. Then, using a series of swirls or quarter twists, I spread the ink over the whole panel working from the crotch center. This is important. In a natural crotch figure the central part is always very dark, almost indistinguishable. You get this same effect by leaving the majority of the ink in that center and working outward.

The reason for using the three-folded cloth is that each of the folds will leave its track on the wood and the three together will blend in and give a very confused, natural-appearing figure.

14 Here is a close-up of the completed crotch figure. I'm sorry that this one couldn't have been made from farther away to give an idea of its real beauty. However, that would have made the tool path invisible. You can see the majority of the ink has been left in the center of the crotch. The rag, working outward, has blended in well with the center but is lighter in color as there isn't much ink at the edges.

The feathering at the edges was made by doing the figure as described before. Then the tool was removed, dampened slightly with thinner, and reapplied to the outer figure. The thinner dissolved the ink sufficiently to make it flow, but not enough to lose all character.

You must be careful that you don't leave a dark streak where the central crotch appears and break off sharply into a rather light outer figure. Blending of the two is of great importance and gives the natural appearance to the figure. This is done by careful handling of the tool in 'streaking out' from the crotch to make the outer fringes.



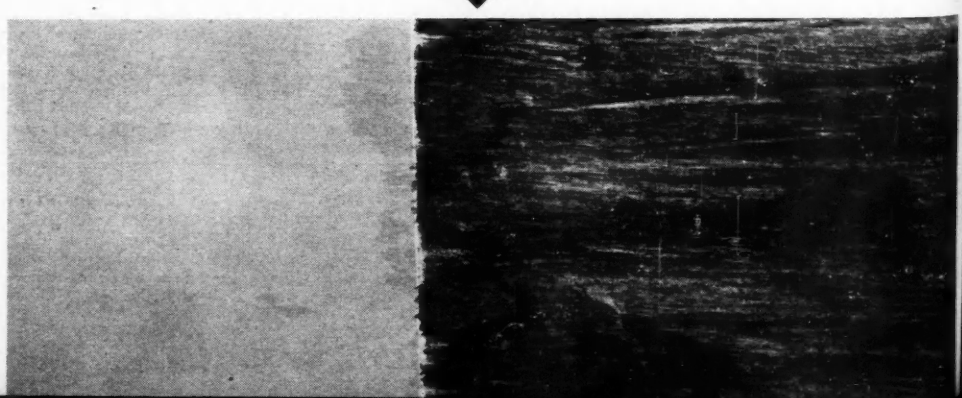
15 This is the second way in which genuine graining may be done. This panel has been grained over bare wood. There is no primer or base enamel coating present. The reason for this is that maybe you have a stock which has some decent figuring, but you want to make it look a little better yet. Possibly you don't like to work with (or don't have available) aniline or a heat source. Therefore, your best bet is this pigment material.

First of all, if you have a new piece of wood that has never had any sort of a finish on it, you should impregnate the wood (after all shaping and smoothing has been accomplished) with a good varnish or shellac. Thin the stuff down to the consistency of water with whatever thinner you have (shellac always uses alcohol and nothing else) and brush it on liberally. Allow it to soak into the wood as much as it will and then dry the surface with cloth or paper towel. Let it dry overnight. The reason for this course is to make the wood nonabsorbent so that it won't drink up the liquid ink and make it hard to work with. Not only that, but dry, porous wood will invariably take blotches and streaks which are impossible to remove, short of sanding. Now take some fine sandpaper and smooth the wood.

The wood is now 'sealed' and ready for the ink. Apply it in dobs and streaks to give you something to work with. Now form your figure with the rag tool.

In this before-and-after shot there is some slight natural figure present in the wood, but it is not good enough to be able to show up by itself. In this case I have entirely ignored that and gone ahead with a predominantly straight grain. There is a splotch or dark spot right in the center which gives a nice touch to the overall figure. This is another one which doesn't look like too much up close, but we are only a few inches away.

All these figures will dry dull, but the following coat of varnish or shellac will bring them right back out.



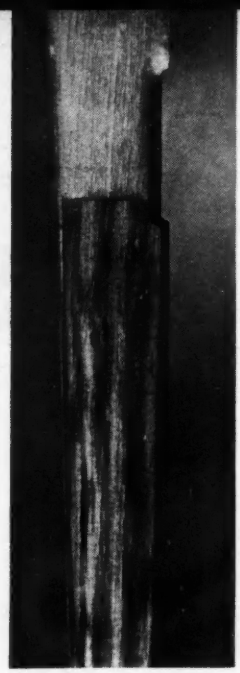
16 This one illustrates a point, but sure won't be hung in any art gallery! It's a discarded Enfield stock which was worked over slightly to make it look better (?).

The stock was sanded with thinner to take out as much grease and dirt as possible. Then it was smoothed down with fine grit paper and wiped clean.

It has so much oil in it it wouldn't take a varnish sealing coat, but the oil already in it kept any absorption from taking place when ink was applied. I threw on a bunch of my streaks of ink (very dark brown, almost black this time).

Then, starting from the butt section I swirled and twisted what was intended to be a modified burl figure. From there I straightened out into a line or stripe pattern and carried that all the way forward. The line pattern shows up considerably better than the burl, it seems.

The one big difficulty in working over oil-soaked wood such as this is that the oil will sometimes prevent following varnish or shellac coats from drying well, or if they do they dry flat and dull. This is something which is unavoidable.



17 This one was easier to work with than the Enfield stock. It is of mesquite, and has never been touched by oil. The wood itself is nice to work with, but, as you can see at the top, there is absolutely no figure. It is plain yellow with no distinguishing marks.

This wood was sealed with thin varnish and then sanded smooth. (It is a very close pored wood so I didn't have to worry about any filling operations.)

Then I took my ink, making it a light brown-red this time. I used a simple ball of cotton and streaked in the figure. Some portions darkened more than others, but that was because I was sloppy in handling the rag. I got more ink on some sections than on others.

Allowing the ink to dry overnight I came back with a piece of sandpaper bent around one finger. Sanding lightly between the streaks I lightened the color there. That made the streaks appear darker and more outstanding.

With a light orange-yellow background wood and the brown-red figuring this stock looks very nice. Just these few touches of ink improved it 1000 percent.

18 Here's one of the stern of a little trinket I picked up in Europe one day. Didn't know what I'd do with it, but I tossed it in the halftrack anyhow. Still don't know what I'm going to do with it, but something will develop. Anyway, it's a standard Schuetzen offhand rifle with a System Haenel action. The wood is pretty good, but was (and is) very beat up. Evidently the Kraut I took it from didn't have the time or inclination to keep it clean as the wood was lousy with dirt and grease and the overall color was a sick yellow-brown. There was nothing attractive about it at all except it had an action I wanted.

The next picture is one of the same rifle but the stock has been worked over. Inasmuch as two shots were the only way I could get a before-and-after effect this one will furnish no information on cleaning up such a stock.

19 This is the after portion of the previous stock. The photographer said my puss would add interest to the picture, though I was doubtful of that. I still am. An overall picture of the rifle is shown here as I wanted to get in something of the fore-end. As you can see in the last shot, the wood has very little 'character' and no accentuation of figure or grain whatever. The fore-end was even worse. It looked like dirty white pine, even after cleaning up with solvent and sandpaper.

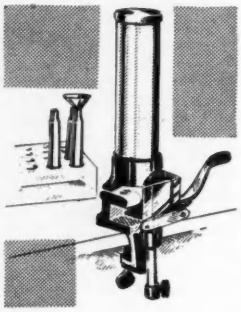
Here both the buttstock and the fore-end were handled in the same manner, though the fore-end got more flame graining than the butt.

First, the stock was cleaned with toluol (cleaning fluid will do as well) and sanded down to get rid of most of the surface dirt. Then a slight reddening and darkening was achieved by going over the wood with a thin wash of mahogany stain. Not enough to actually impart color, but enough to tinge it slightly.

My hand torch then entered the picture. It was cut down to a needle-point flame and swept quickly and lightly along the natural grain line (in the butt section). As there was no appreciable grain or figuring in the fore-end it ran transversely. This gave a flame or tigertail effect. The butt section had enough natural figure so that only enhancement or accentuation was needed. This the flame operation gave.

In the hollow of the cheekpiece there was quite a nice figuring. There was no point in hiding that, so a brushing by the torch flame darkened the wood somewhat. Then, a slight sanding with 360 grit sandpaper cut off most of the blackening but left enough down in the pores to make the natural figuring stand out well.

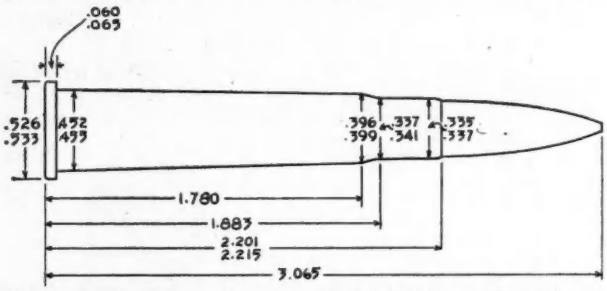
It is seldom that you will find use for more than one or two kinds of graining operations, even on very plain wood. Flaming is always good, if you become familiar with the 'feel' of the flame in bringing the color to just the right depth. It can be used on nearly all stocks. ◆ ◆ ◆



LOADS FOR THE .303

THE HISTORY OF the development of the British Government's .303 cartridge closely parallels the attempts of other major powers near the end of the nineteenth century to improve their small arms. By the late 1880's several countries had adopted magazine rifles, and France had reduced the caliber of her rifle to 8 mm., thus beginning a new era in thinking about the caliber of military small arms.

As early as 1883 Major Rubin, director of the Swiss Government arms laboratory at Thun, had experimented with a modified Vetterli rifle using a 7.5-mm. jacketed bullet. By 1885 he had developed what is now known as the 7.5-mm. Rubin magazine rifle and cartridge. The cartridge had a tapered brass case loaded with a 217-grain, copper-jacketed, round-nose bullet. The propellant was a compressed, molded cylinder of black powder with a longitudinal ignition hole through its center. A split brass collar was used to bush the gap between the inside of the case mouth and the bullet, and to hold the bullet in place. On firing, the brass collar remained in the case. However, if it was desired to reload the case, the split collar could be temporarily removed to allow the loading of another compressed powder pellet after the Boxer-type primer had been replaced. Made in both rimmed and rimless versions, Rubin's cases became a matter of considerable discussion in ordnance circles throughout the world. His rifle and ammunition were tested by the U. S. Ordnance Department at Springfield Armory in 1889.



Maximum and minimum dimensions of .303 British cartridge. Figures are averages of actual measurements taken from factory ammunition. Latest specifications give .312 inch as maximum bullet diameter

The British, in 1883, established an ordnance committee to study magazine rifles and select one for their service. By 1887, the committee had decided on the Lee bolt-action arm with Metford-type rifling; however, the caliber of it had not been determined. In January of 1887 the committee was directed to investigate the matter of smaller calibers and they obtained one of Rubin's guns with a supply of ammunition for preliminary tests. By June of 1887, the committee had recommended that the caliber of future British service rifles be .30 inch. In January 1888, that recommendation was acted upon and 350 rifles were ordered manufactured for issue to the troops for field test.

The British cartridge for which the rifles were to be chambered followed Rubin's ideas in a number of points. The case was rimmed, had the same approximate degree of body taper, and had practically the same rim and head diameters; however, the British case, instead of using Rubin's brass collar, was necked to hold the bullet. The bullet in the cartridge weighed 215 grains and had a cupronickel jacket without cannelures. The primer was of the Boxer type. The propellant was a compressed charge of black powder. In contour, the British cartridge was what we now know as the .303 British.

The results of the trial were favorable, and the Lee-Metford magazine rifle, Mark I, was officially adopted by the British Government in December 1888. The arm was essentially the same as the arm issued for the trials, with the exception of a few minor changes. The cartridge was officially known at "Cartridge, Small Arms, Ball, .303-inch, Powder, Mark I."

It was not until April of 1892 that smokeless powder was adopted for the .303 British round, at which time cordite was standardized. In November of 1895, after considerable experience with the erosive effects of this double-base propellant, the Metford rifling was discarded in favor of the deeper Enfield type, and the Lee-Enfield magazine rifle, Mark I, was introduced. One other fact might bear mention in regard to British service rifles, the adoption of the Short, Magazine, Lee-Enfield in 1903. This weapon was about five inches shorter than the previous types and more closely follows the lines of the British rifles we are accustomed to seeing today. The list of British service rifles and cartridges in .303 caliber is quite long.

The cartridge name of .303 British is apparently an American expression. In Great Britain, the round goes by the commercial designation of .303 Rifle. A number of other countries, among them France, Holland, Italy, and Japan, have used the .303 British round in various military weapons but since these nations use the metric system of measurement they refer to it as 7.7 mm.

The correct internal measurements of the .303 barrel are:

Bore diameter	.303–.305 inch
Groove diameter	.313–.319 inch
Groove depth	.005–.008 inch

Commercial manufacture of .303 British ammunition by one United States manufacturer or another has been continuous since its introduction into this country in 1897. After World War I it was made with the 174-grain metal-cased pointed bullet, which was apparently discontinued about 1930. The other bullet types which have been offered are 215-grain round-nose in either full-metal jacket or soft-point construction. Of these, only the soft point remains. The full-metal cased round has been discontinued in recent years.

In addition to the long list of British service arms, numerous other arms have been chambered for the .303 cartridge. Remington produced the Remington-Lee bolt-action maga-

Table 1: Velocities and Pressures for .303 British Loads

Load	Weight (grains)	Bullet Type	Bullet Diameter (inch)	Seating Depth (inch)	Powder Charge (grains)	Powder Type	Lot No.	Primer	Case Make	Velocity	Pressure	Remarks
1	125	Sierra S.P.	.308	.20	42.0	HiVel 2	.....	Rem. 9½	Rem.	2602	32,280	Light load
2	150	Hi-Precision	.3115	.27	39.0	HiVel 2	.....	Rem. 9½	Rem.	2435	31,800	Light load
3	150	Hi-Precision	.3115	.27	41.0	4895	27277	WRA 120	WRA	2515	40,140	Good load
4	174	Ball MK 2	.311	.28	44.0	4320	20	WRA 120	WRA	2486	44,240	Near maximum
5	174	Ball MK 2	.311	.28	42.0	4064	52	WRA 120	WRA	2507	44,720	Accurate
6	215	Rem. S.P.	.311	.26	46.0	4350	16	Rem. 9½	Rem.	2290	38,480	Accurate
7	215	Rem. S.P.	.311	.26	43.0	4320	20	WRA 120	WRA	2338	51,220	Maximum load
8	127	Kirksite G. C. Ideal No. 311229	.311	.43	43.0	4320	20	WRA 120	WRA	2619	39,620	Good load
9	126.8	Kirksite G. C. Ideal No. 311229	.311	.43	34.0	Lightning		WRA 120	WRA	2719	55,600	Excessive
10	174	Ball MK VII	.....	...	Cordite	Dom.	1941	Berdan		2632	34,200	Good load
11	174	Gilding MK VII	.....	...	Cordite	Dom.	1945	Berdan	Special	2458	39,300	Target load
12	215	Factory S.P.	.....	...	.....	.....	.....	.....	.....	2138	36,320	Hunting load

zine rifle for it, as well as various models of single-shot rifles. The Ross Rifle Company in Canada produced some of their straight-pull bolt actions in .303 British, the most common of which were the Mark II and Mark III models used to some extent in World War I. Winchester introduced the lever-action model 1895 in .303 caliber in March of 1898. Today all of these have been discontinued, the Winchester model 1895 going out of production in 1936.

While the strength of the Lee-Enfield action has been stated as comparable to that of the Krag, the British claim that the safety factor with the standard case is greater than that of any action with a rimless case. The claim does not compare the actual strength of action, but the combination of action and cartridge. One experienced Canadian shooter reports that he was unable to wreck a Lee-Enfield action with No. 80 powder behind 174-grain bullets, whereas much lower charges of No. 80 with 180-grain, .308-inch bullets wrecked a Krag.

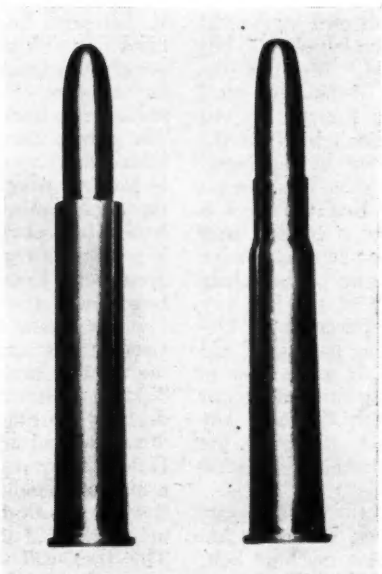
For all practical purposes, the .303 British cartridge can be hand-loaded like the .30-40 Krag, using recommended Krag powder charges for reduced loads with lead-alloy or gascheck bullets. The .303 British rifle will handle safely higher pressure than can be used in the Krag, although normally the .303 is loaded to almost the same pressure level as the Krag, even with full-power loads and jacketed bullets. The maximum individual pressure for any Krag load should be 44,000 pounds, and for the .303 British it is 49,000 pounds. Thus, working pressures are nearly the same for the two cartridges. The maximum case length for the .303 British cartridge as given on the latest factory drawings is 2.210 inch, though some samples we have seen measure up to 2.215 inch long.

All loads in Table 1 are within perfectly safe loading tolerances for the .303 British, with the possible exception of load No. 9. It was an experimental load which had proven accurate in certain rifles, but pressure is quite high and the powder charge should be reduced at least one—possibly two—grains if Hercules Lightning is used. The velocity of Kirksite bullets at such high pressure is not impressive.

Since the .303 British has bore and groove dimensions that are not comparable with those of any other rifle in this country, special diameter gascheck bullets should be used. The Ideal Handbook recommends that plain lead and lead gascheck bullets be sized to full groove diameter or from .311 to .313 inch. However, it is our experience that .315 inch is better for most guns and that cast bullets up to .317 to .318 can often be used with good results though we prefer not over .315. One good bullet for the .303 is the Ideal 311299 weighing 210 grains. Recommended charges are 15 grains of Hercules No. 2400 or 21 grains of Hercules Lightning. This load would be in the class of the .30-40 Krag. With lighter .30-caliber bullets, such as the 115-grain .32-20, as much as 43 grains of No. 3031 has been used to get around 2545 feet-per-second velocity.

No harm whatsoever is done by trying regular .30-caliber or .308-inch bullets in .303-caliber rifles. If they work, the variety and weight of bullet that can be used is almost unlimited. But usually an increase in powder charge is necessary with sub-diameter bullets, which frequently are not accurate. Standard diameter for most .303 bullets, even jacketed ones, is .311 inch. The .303-inch barrels have extremely deep rifling and therefore diameter of the bullet is noticeably smaller than groove diameter.

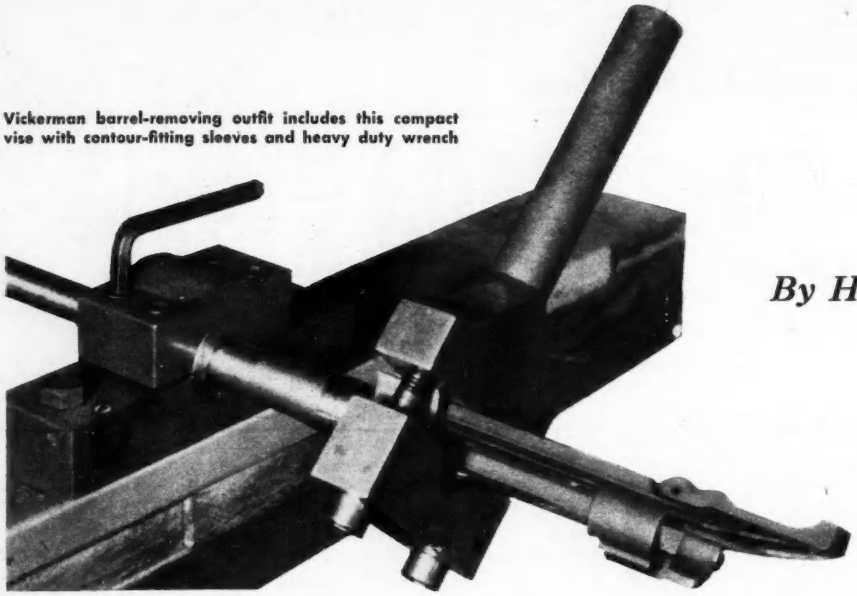
Any mold maker could probably furnish regular molds for the .303 British bullet along the same designs as .30 caliber bullets. Some of the favorites should be the Ideal 311413 or the Modern-Bond 311910, made oversize. With these particular bullets fitted to the barrel, fine accuracy could be obtained using 17 to 19 grains of No. 4759 or 21 to 22 grains of No. 4895. And unquestionably, Cramer Bullet Mould Co., 11625 VanOwen St., North Hollywood, California, or Hensley & Gibbs, 2692 "E" Street, San Diego, California, have special molds for casting bullets in .303 British caliber. By following the Belding & Mull and Ideal Handbooks, there would be no problem whatsoever in making up suitable gascheck loads in .303 caliber. ● ● ●



7.5-mm. Rubin cartridge (left) is distinct forerunner of .303 British load (right) in both outside contour and general dimensions

Future articles of the current series on handloading ammunition will cover loads for the .375 and .300 Magnum cartridges, the .218 Bee, the .300 Savage, the .45-70, and the .32-40. Also, arrangements have been made to conduct pressure and velocity tests of .38 and .45 caliber handgun loads, the results of which will be published.

Vickerman barrel-removing outfit includes this compact vise with contour-fitting sleeves and heavy duty wrench



By Harold F. MacFarland

BARREL

UNTIL RECENTLY it was common practice to screw rifle barrels into receivers just tightly enough to prevent a shooter from inadvertently losing them. Lately, however, a contest seems to have developed between various gunmakers to see which can set barrels home the tightest. Individual guns of various makes have made valiant efforts, but the Enfield group, running as a team, seems to be winning hands down. The usual Mauser barrel comes out without undue effort. A few of them were made with wartime haste. The threads are oversize, and they require the weight of a husky man on the end of a six-foot wrench handle to turn them, even after they are broken loose. The Steyr-Mannlicher barrel can cause trouble. It is screwed home solidly, but the real difficulty comes because it offers small purchase for clamps. Most Springfield barrels come out easily, but a few made during World War II are hard to start. Even a few Jap Arisakas would seem to have been screwed home by those 300-pound Jap wrestlers.

Each gunsmith seems to have evolved his own method of removing rifle barrels. Most of them get the barrels out, but the gun isn't always the same afterward. Most of the trouble comes from a faulty understanding of the mechanical aspects of the situation. Springfields and Enfields are cut loose and sloppy on the threads. They don't bind on the threads. The tight spot is at the junction of the barrel shoulder and the front end of the receiver. The threads draw these shoulders together so tightly that the steel is practically welded. When enough pressure is applied, they let loose with a bang, and the barrel will then actually wobble on the threads. No amount of penetrating oil will help the situation.

Some shops apply a hammer to the receiver ring. Discreetly applied, this will often loosen the barrels of old Winchesters. On a rifle like the Enfield, it serves only to upset the metal and swell the receiver ring forward against the barrel shoulder, making it that much tighter. Any distortion at this point can alter headspace, and affect the relationship between the bolt lugs and the receiver shoulders against which they bear.

Many shops apply an acetylene torch to the receiver ring. I would heartily condemn this practice on military rifles. It's all right for loosening a tight nut on a machine bolt, where the binding is on the threads. On an Enfield receiver, it is not only futile but ruinous. Any heat expansion on the receiver ring will only make it that much tighter by expanding it forward. Heat of a temperature that will not even color the metal will rearrange the molecules of steel and alter its characteristics. Bessemer Air-Q steel has the temper drawn after hardening by holding it at a temperature of 225 degrees for five to eight hours. I have an Enfield receiver in my shop that shows what can happen. Another shop had changed a barrel on this rifle. It showed a hairline crack extending from the gas port forward. I hit it a smart blow with an eight-ounce machinist's hammer and the receiver shattered like glass. It was extremely hard and brittle. This receiver had been heated with a torch until the concealed inside portion was burned red.

When a barrel refuses to budge under reasonable pressure, the place to work on is the point which is binding. Powerful clamps could be made that would turn barrels out or twist them in two. There would be grave danger of receiver distortion. Brute force is pointless when there is a system for removing barrels safely and easily. I relieve the pressure at the barrel shoulder, whereupon any of the military barrels turns out with very little effort. I cut a groove around the barrel immediately ahead of the shoulder, and to the depth of the shoulder. If care is used, it may be cut with a hacksaw, staying the thickness of the blade away from the receiver. The narrow ribbon of steel that is left will spring back and relieve the pressure. The barrel and receiver assembly may be set up on the lathe and a thin parting tool used to attain the same result. This practice doesn't spoil the barrel for reuse. Just set it back one thread and all trace of the cutting is gone. This system works with equal effectiveness on the Springfield, Enfield, Jap Arisaka, Steyr-Mannlicher, and the Luger pistol.

Barrel Vise: The small shop frequently needs a barrel vise but they are too expensive to buy unless you are changing a lot of barrels. An old trick is to use a rope wrench. Take at least ten feet of strong half-inch rope and fold it double. Starting at the free ends of the doubled rope, wrap it around and around the rifle barrel as tightly as possible. Hold the starting ends of the rope against the barrel, and stick a mattock handle or a baseball bat through the loop which is left at the other end of the rope. The rope will snub up tightly, and all you have to do is to heave on the handle. This trick will work every time on guns of the medium-power class such as the lever-action Winchesters, Marlins, and Savages. Military barrels are usually screwed in too tightly for the rope wrench. You can easily break half-inch

Barrel removal and refitting can be the gunsmith's prime headache. Here are some practical ideas on the subject, in an advance-of-publication chapter from the book "Gunsmithing Simplified", to be published this fall by Sportsman's press

REMOVAL, Fitting and Chambering

rope on military weapons with such stubbornly-fitted barrels.

A more satisfactory wrench for the tight ones can be made if you have access to a machine shop where heavy drilling and welding are done. Get two iron plates measuring 4 inches by 7 inches by ¾ inch, four 1 inch by 5 inch cap screws, and a piece of 1-inch pipe 7 inches long. Drill a 1-inch hole in each corner of one of the iron plates, and 1⅛-inch holes in corresponding positions in the other plate. Shove the cap screws through the 1-inch holes and weld the heads in place. Then place the 1-inch pipe so that it contacts all four cap-screw heads, and weld it to them. Groove a pair of hardwood blocks to fit the rifle barrel immediately ahead of the receiver. Dust powdered rosin in the grooves, and clamp the blocks between the iron plates. This clamp may be held in a large machinist's or blacksmith's vise, or, if the rifle receiver is padded and held in a vise, the clamp may be used as a wrench. Just stick a crowbar in the 7-inch pipe and heave on it.

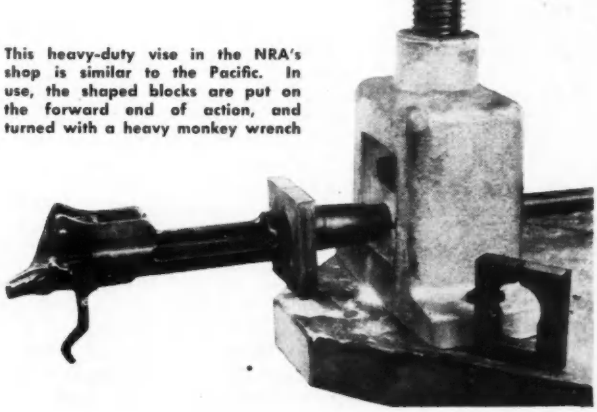
The Pacific barrel vise operates on the same principle. It provides a means for clamping a pair of rosin-faced blocks to the breech end of the barrel. These blocks must fit the barrel contour accurately, and if made of wood must be hard wood. Micarta is a better material. Whatever the material used, the blocks are dusted with powdered rosin and clamped very tightly on the barrel. Unless they are tight enough to prevent any trace of slippage, the barrel blue will be on the blocks instead of the barrel when you're through.

The second type of barrel vise is the Vickerman. This consists of a split steel sleeve, contoured inside to fit the barrel, and clamped within a steel pillow block. Four sets of sleeves are provided and these will approximate a fit on the barrels most commonly worked on. Additional sleeves may be obtained on special order and it is necessary to get them or make them for such barrels as the Jap Arisaka and model 70 Winchester. Among the sleeves regularly furnished is a set which fits Mauser barrels without interfering with the rear sight. This barrel vise, like the Pacific, is used with powdered rosin to provide additional friction.

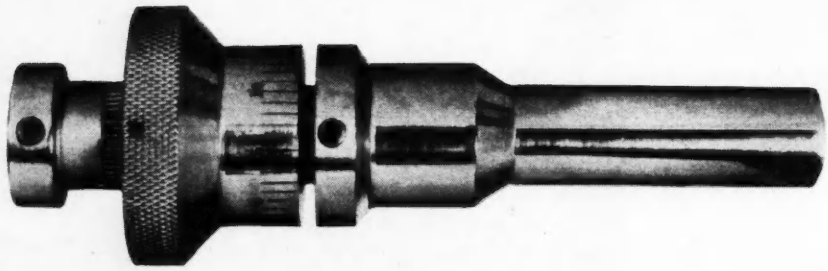
As far as gripping barrels is concerned, either of these vises will do the job with about equal effectiveness. There are a couple of points that weigh heavily in favor of the Vickerman. Either of them is entirely too expensive, but the Vickerman is the cheaper. The Vickerman is much smaller, handier, and faster to use. When shouldering rifle barrels into a final fit in a receiver, I leave the Vickerman vise clamped on the barrel. I grip the Vickerman in the bench vise, which holds it while I screw the barrel home. It is only the work of seconds to transfer the barrel and vise assembly to the lathe centers and turn a few thousandths off the barrel shoulder. The vise will revolve over the ways of a ten-inch lathe. If I had to remove the barrel from the clamp each time, fitting would either be slow, or else let go at a crude approximation.

When barrels are really tight, any of these clamps must be fastened down to something solid. No ordinary workbench will stand the required pull. I tore up one made of three-inch planks on the first tight barrel I encountered. The ideal base for the vise is a heavy concrete block. I anchor my Vickerman to a length of railroad rail.

Action Wrenches: We are less well blessed when it comes to action wrenches. The largest monkey wrench obtainable, with a V-block welded to the fixed jaw, is effective until the going gets really tough. Vickerman makes the only commercial wrench that I know of for this purpose. It works beautifully, and the only catch is the price. A limited market for a tool of this type prevents any quantity produc-



This heavy-duty vise in the NRA's shop is similar to the Pacific. In use, the shaped blocks are put on the forward end of action, and turned with a heavy monkey wrench



Newest gadget for chambering is the Dem-Bart "Micro-Head Depth Stop." It is inserted in receiver, and chambering reamer is operated through it.

tion, so they must be made by hand. This clamp is universal. At times it takes a bit of contriving, but I have never found a receiver I couldn't clamp it on. On the Steyr-Mannlicher, I use a washer one-half inch thick. This is dropped over the stud-like projection on the bottom of the receiver ring, and provides a flat-surface bearing for the wrench. On the 6.5-mm. Arisaka, I use a triangular wedge of steel between the recoil lug and the fixed jaw of the wrench. This gives a bearing the full length of the lug. The only receivers this wrench has ever damaged are Mausers. I have learned to get around this and now leave no blemish on them. I split a heavy bronze bushing lengthwise, and clamp half of it between the V-block of the wrench and the receiver ring. The bushing should have nearly the same inside radius as the receiver.

The Vickerman wrench has a short handle and is intended to be used with a hammer. Often a sharp blow will break loose a stuck barrel when a steady pull will not. Clamp the wrench on solidly and swat the handle with a five-pound hammer, tightening the clamp screws after every blow. If the barrel doesn't loosen after three or four blows, call it a tight one, and cut a relief groove.

Barrel Threading: When installing a new barrel in an action, the threading is a simple lathe operation. There is nearly always an old barrel to copy. A few rifles like Springfield, Enfield, and Krag use a square thread, while nearly all the others use a standard 60-degree V-thread. In cutting the square thread, it is necessary to grind a special tool for the purpose. This tool must be of the exact width of the thread channel, must be angled to one side at the same pitch as the thread, and be ground for clearance along both top and sides. The cuts taken with it must be light, since it is engaging more metal than a corresponding V-tool.

Mauser barrels are designed to fit against both an inner and an outer shoulder. The barrel should be spotted in with bearing blue until it has a solid contact on both shoulders.

Occasionally, as in setting back a .30-'06 barrel to get a .300 Savage chamber, you will want to turn the barrel in to a predetermined index mark. In this case, shoulder and thread the barrel, and screw it solidly home. Then measure the number of degrees of rotation needed to turn the barrel to the index. Computing the degrees of rotation against the thread pitch, it is easy to determine the amount to shoulder it off. Assume that we are working on a Springfield. We know that the thread pitch is ten to the inch, and that one revolution will move the barrel .1 inch. If the barrel should lack 45 degrees of turning up to the index, this means that it must go one-eighth of a turn farther. This portion of a revolution will move it .0125 inch. It is only necessary to set the micrometer carriage stop on the lathe this amount and face off the barrel shoulder.

Barrels on the Mauser and Krag are flat on the breech end, and so are simple to face off. The Springfield and Enfield have an approach cone which must be duplicated. This is cut on the lathe with a round-nosed tool. The compound feed is set at 40 degrees, and all feeding is done by hand. Gauging the depth of this recess is the most difficult part. A template (illustrated) may be made of sheet metal, copying the recess in the original barrel. The legs of this template should be left .020 inch to .025 inch longer than on the original barrel, so that the breeching will be snug, and the bolt will fit tightly against the recess. The legs of the template will rest on the barrel shoulder, and all gauging should be done from this shoulder.

Extractor slots such as are found on the Krag, and on lever-action Winchesters, are best filed in. The outline of the notch is scribed in to match the corresponding cuts in the receiver. Then the outlines of the cut are made with a hacksaw. Finish it to shape with a file. Deep notches as on the Springfield must be milled in. The slots in military rifles are usually cut loose and sloppy to avoid hand-fitting. The cartridge head will be more completely enclosed if the slot is cut just wide enough to permit the extractor to work freely. Some fine Mauser sporters have the nose of the extractor ground down to half width to enclose the shell head more completely. The slot on the Enfield should be milled not wider than 7/16 inch.

Makeshift Chambering: The backwoodsman's trick, when his .30-30 Winchester has worn out its barrel, is to worry the chamber out with a drill bit or file until it will accept .32 Special ammunition. The gun shoots quite well for another box or so of cartridges. It is a highly dangerous practice, and it jacks pressures up to around the .30-'06 level. It is a tribute to the Winchester action that they don't blow wide open. The locking bolt gradually sets back until headspace is so excessive the gun won't fire.

Chamber Reamers: Briefly, there are these general types:

First is the *rougher,* which is intended to cut out a lot of steel fast, and give only approximate chamber dimensions.

The *finish* reamer cuts to exact chamber dimensions.

The *burnishing* reamer exerts only a scraping and polishing action. It is used as a final step to give a glass-smooth finish to very fine barrels.

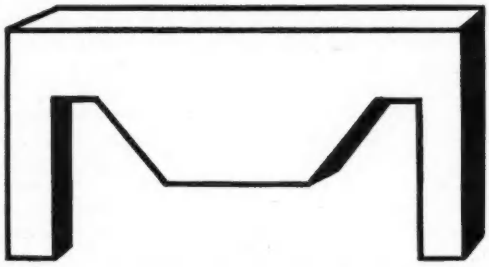
The small shop operator is frequently tempted to buy only a finish reamer for those calibers on which he does only a limited amount of chambering. Reamers are expensive, but it is poor economy to spoil a finish reamer by roughing out a chamber with it. A chrome-moly chamber cut all the way with the finish reamer will so wear the reamer edges that the chamber cannot be properly finished. It is possible, though, to get by with only one reamer for a caliber. The barrel may be accurately centered in the lathe and the chamber effectively roughed out with drills. The chamber is roughed in a series of steps with a change of drill size at each step. To allow for any slight run out of the drill, the drilling should be kept 1/16 inch under the final dimensions at all points.

Chamber cutting in the large production shop is a totally different procedure from that practiced by the small operator. The large shop will cut chambers entirely in the lathe with a pressure-lubricated reamer made especially for it.

The small operator who attempts this sort of cutting with a hand reamer is asking for trouble. Chips will clog flutes and score a chamber before it is realized anything is wrong. A reamer cutting in a lathe without the benefit of a pressure coolant quickly runs hot, binds, and then comes out with fewer flutes than when it entered the chamber. The chamber should be roughed in the lathe but any finish-cutting is much better done by hand.

Hand-chambering has its vicissitudes too. If care isn't exercised, it is easy to force the reamer shank to one side and cut the chamber oversize. Whenever possible, as it is in most bolt-action rifles, the chamber should be finish-reamed with the barrel screwed home in the rifle receiver. The reamer shank is extended by a special reamer extension, so it reaches through the receiver. The extension shank is made to give a snug fit in the boltways of the receiver, and thus accurately guide the reamer. The reamer should be liberally coated with lard oil, or black sulphur cutting oil, and then turned into the chamber for perhaps 1/16 inch; after which it is withdrawn and all chips carefully cleaned from the chamber. As the reamer approaches final depth, the headspace gauge must be tried often in the chamber. Care must be exercised during gauging to make certain no chips are left in the chamber. It is entirely too easy to gauge on top of a chip, and then cut the chamber too deep.

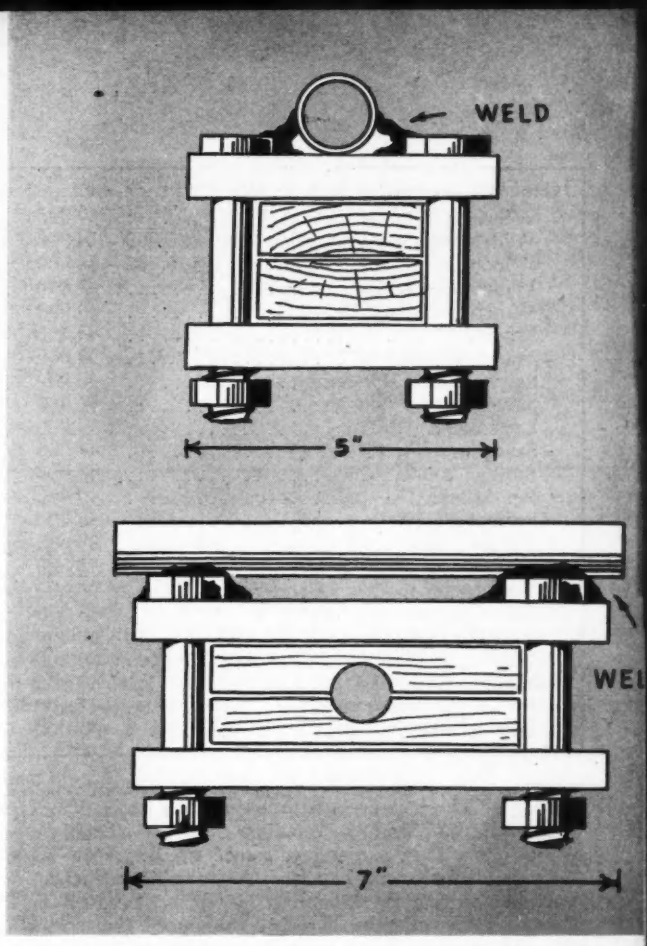
Headspace: The gunsmith will often be called upon to cure a case of excessive headspace. This is best accomplished by setting the barrel back one thread. This is usually done without cutting the extra thread. On the average rifle it is necessary only to cut a relief ring at the shoulder end of the threads, cutting to the thread root diameter, and extending the cut for a distance that will permit the barrel to revolve one full turn deeper into the receiver. This measurement will be determined by dividing one by the thread pitch. Thus, a ten-



thread barrel will be set back .1 inch. A twelve-thread barrel will be set back .0833 inch, and a sixteen-thread barrel, .0625 inch. A micrometer carriage stop should be used, and all facing cuts on the barrel are faced back the same amount. The extractor cut on such barrels as Springfield and Enfield is milled a like amount deeper. On barrels for high-intensity loads such as some of the .22 high speeds, cut the additional thread to preserve all possible strength. In this case the barrel is turned at the shoulder to the major thread dimension. The thread is then cut by pulling the lathe over by hand, so that the threading tool may be stopped exactly at the shoulder.

Headspace on rimmed cartridges such as .30-30 and .30-40 Krag is figured merely as the thickness of the cartridge rim, and the measurement is not critical. Sufficient clearance is allowed to take care of thicker-than-usual rims, and it is not especially dangerous if a little excess clearance is allowed.

Rimless cartridges are an evil thrust upon us by autoloading and automatic mechanisms, and by the Mauser-type magazine. Rims have a tendency to jam in these actions, so the rimless cartridge with all its headspace dangers came into being. Headspace on a rimless cartridge is measured from the forward shoulder of the cartridge case to the bolt face. The proper spacing of this shoulder is all that maintains the



Above: This barrel vise is home made, of a few pieces of metal, a length of pipe, and two blocks of wood. Full directions are included in the article. Left, template (enlarged) used in shaping chamber of .303 barrel

cartridge in its position against the bolt face. Here is the picture of what happens when that clearance happens to be excessive. Cartridge cases are made of thin brass on the forward or neck end. It becomes progressively thicker toward the base of the case. Expansion of the case on firing, therefore, is quicker and greater on the front end of the case. At the instant of firing, the firing pin drives the case forward against the shoulder, and the thin brass on the front of the case expands to grip chamber walls solidly. The rear portion of the case expands and grips less, and since it is unsupported by the bolt face, the case tears in two. Powder gas under a pressure approximating 50,000 pounds to the square inch rushes out to wreck the rifle action.

Certain cases like the .220 Swift and the 6.5-mm. Arisaka are made semirimmed to maintain the shell head against the bolt face and get away from this danger. The Holland & Holland Magnum cartridges have a belt just forward of the head which serves the same purpose. I have seen junk Mausers made for the export trade which had as much as ⅛-inch excess headspace. If a cartridge were dropped in the chamber of these rifles, neither the extractor nor the firing pin would touch it. Cartridges feeding from the magazine would come up inside the extactor hook and were held by it against the bolt face. As long as that extractor held them there snugly against the thrust of the firing pin, they could be fired safely.

Excessive headspace, therefore, can be a dangerous thing when rimless cartridges are used. Normally .006 inch is considered the maximum safe working tolerance. Thus, a .30-'06 chamber must be cut until the measurement from the forward shoulder of the chamber to the bolt face is 1.940

Generally accepted figures on action strength are:

Winchester model '94	39,000
Winchester model '86 below serial 126,000	39,000
Winchester model '86 above serial 126,000	45,000
Winchester model 71	45,000
Winchester model '95	45,000
Krag	43,000
Marlin model 336	39,000
Savage model '99, early	40,000
Savage model '99, late	45,000
Lee-Enfield (SMLE)	45,000
Savage models 40 and 45	45,000
Stevens model 325	40,000
Jap Arisaka	50,000
Springfield 1903	50,000
Enfield 1917	50,000
Mauser	55,000
Winchester models 54 and 70	55,000
Remington models 30 and 720	55,000
Remington models 721 and 722	60,000
Ross	50,000
Mauser model '88	45,000
Mannlicher-Schoenauer	45,000
Norwegian Krag	45,000

inches. This gives sufficient depth to accept any standard cartridge. The measurement must not be greater than 1.946 inches. Beyond this, the cartridge case may stretch enough to rupture. That working tolerance of .006 inch is only twice the diameter of a hair from your favorite redhead.

At this writing the Dem-Bart Company, P. O. Box 700, Tacoma 1, Washington, has just announced the production of a tool which will prevent a lot of gray heads among gunsmiths. I know of no job more critical than that of finish-reaming a rifle chamber. Even the best of us will run the reamer a bit too deep at times and have to fit a barrel all over again. After completing seven or eight chambers in a day, I feel as limp as a rag, and I'm ready to cuddle up in the old rocking chair and nurse my ulcers.

Dem-Bart's new lifesaver is a "Micro-Head Depth Stop" for chambering reamers. It is inserted in the rifle receiver and the reamer is operated through it. The adjustable stop is calibrated in thousandths of an inch, and a chamber may be readily regulated to that tolerance. This tool costs $25, but the time saving alone will soon pay for it. When it is used, there can be no more over-reamed jobs.

Throat: The average chamber reamer is made with an integral throating section. When this reamer is used, the chamber and throat are cut at the same time. Some reamers have no throating section, and the throat must be cut separately with another reamer after the chamber is cut. It is common practice to relieve the throat until a bullet seated in the chamber will just touch the lands. The German practice is to give the bullet a running start before it hits the rifling. Accuracy isn't materially affected, and pressure is greatly reduced if the bullet has moved forward an inch or so and the explosive pressure has dropped from its peak before the bullet encounters the heavy friction of the rifling lands. For many years we called the German practice 'sloppy chambering'. Recently someone discovered the merits of the system, and we now call it 'free boring'. Tempus fugit!

With standard cartridges where the safety margin is ample, we insist on tight throating in order to get that last tiny portion of a minute of angle of accuracy. On some of the newer hopped-up wildcat loads such as the various Controlled-Combustion-Chamberage loads, and the Ackley and Weatherby wonders, free boring is advisable. Pressure in these cartridges is crowded right up to the maximum safe limit with present-day cartridge cases and rifle actions. In practice, the throating reamer is run into the chamber until the lands are removed for a distance of one inch or two inches. This removes only the lands, without touching the barrel grooves, so that in effect, the barrel is smooth-bored for this distance.

Safety Limits: In fitting new barrels to rifle actions, and in chambering original barrels, watch the safety limits of the actions. Each rifle action has a safe limit of working pressure, and it isn't wise to go beyond that. The 1894 Winchester has a working limit of 39,000 pounds. The .30-30 could be rechambered for the .300 Savage, but it is giving business to the undertaker to do so. The old Krag has a limit of 43,000 pounds. Some users are having these rebarreled to shoot .257 Roberts cartridges. They work fine with reduced loads; but sooner or later a new owner is going to crowd in full-power loads and take that Krag apart. Late-vintage '99 Savages are made of tough alloy steel and will safely handle .300 Savage cartridges. Early ones that look identical are made of soft steel and have a safety limit of 40,000 pounds. It just isn't good gunsmithing to rechamber the old .30-30 Savage to .300 caliber.

Breech pressure is a relative thing and had better be expressed as a required 50,000 Xs necessary to disrupt an action rather than an absolute and actual 50,000 pounds of pressure. Methods of measurement vary somewhat, and while various manufacturers may agree that a .30-30 action has a safety limit of 39,000 pounds, or a Krag a limit of 43,000 pounds, several laboratories may test the same cartridge and come up with entirely different findings. Furthermore, the accepted pressure figure is expressed as pounds per square inch. It is obvious that a cartridge with the head of a .348 Winchester is going to exert more actual pounds of thrust on bolt lugs than a .22 Hornet with the same internal pressure. The strength of older actions was actually dependent on the shearing strength of the locking surfaces. Modern actions are so superior in the quality of the steel used and in general design that the limiting factor is largely in the support and enclosure given the brass of the cartridge. Actual thrust seldom wrecks them. It is only when unsupported brass is allowed to rupture that outrushing gas disrupts an action. In choosing an action for a given cartridge, or a cartridge for a given action, it is wise to remember the relativity factor of pressure. Rather than accept hard-and-fast pressure figures, it is well to find a combination that will be expected to contain no greater pressure than the general class of cartridges the action was originally designed for.

"Sure, Jones, I'll meet you in San Francisco. The NRA Convention is our biggest deal yet!"

Military rifles are subject to wide variations. Thus, Enfields made by and branded Winchester or Remington are apt to be consistently good; while those branded Eddystone may or may not be safe. Manufacture on these was careless. They are rough and some have improper heat treatment. Peacetime Mausers are superlatively strong; while those made late in the war by slave labor may be

dangerous with moderate loads. The German High Command is reputed to have ordered the proof testing of these guns stopped because they were losing too many of them in the tests. Springfields below serial number 800,000 were made with a simple case-hardening treatment. These guns are unsafe with modern high-intensity loads. Those made at Springfield Armory with serial numbers between 800,000 and 1,275,767 were given what is known as a double heat treatment. Rock Island Arsenal rifles with a serial above 285,507 were also double heat treated. These rifles are quite generally safe and dependable. The rifles at Springfield subsequent to number 1,275,767, and at Rock Island after 319,921 were made of nickel steel. This is tough rather than hard. It was subject to gradual setting back on the lugs but there is little danger of the nickel-steel gun cracking. During World War II certain lots of Springfield rifles were made by Remington from a molybdenum alloy. This is both strong and extremely hard. It has two drawbacks from the gunsmith's point of view. It doesn't take bluing well, and it is extremely difficult to drill and tap. • • •

Bench Rest Averages

As BENCH-REST SHOOTING is gradually standardized under the guidance of its own national association, more and more information becomes available to the reloader interested in our most accurate wildcat cartridges. The table reproduced below lists the performances of all entrants in the 1949 bench rest tournament at Johnstown, New York. Of particular interest, in addition to the detailed loading and rifle data, are the figures for largest, smallest, and average groups. It is through the publication of such detailed information as this, never before available, that the bench-rest shooters can make their greatest contribution to the development of tomorrow's rifles.

		Average	*Smallest Group*	*Largest Group*	*Caliber*	*Action*	*Bullet*	*Weight (grains)*	*Powder (grains)*	*Barrel*	*Gunsmith*
1.	Robbins, D. A.	.433	.214	1.168	Wasp	F.N.	Sierra	50	25.5	Gregoire	Taylor
2.	Riddle, F. M.	.506	.241	.785	Wasp	98	—		—	Gregoire	—
3.	Leon, Roy S.	.548	.307	.735	Wasp	98	RCBS	54	27–3031	Douglas	Douglas
4.	Bliss, Lyle	.570	.320	.894	Wasp	F.N.	—		27–3031	—	—
5.	Walker, M. H.	.577	.449	.735	Wasp	Martini	RCBS	55	27–3031	Walker	Walker
6.	Pettit, C. C.	.587	.370	1.407	Imp. Wasp	F.N.	Sierra	55	—	Gregoire	Taylor
7.	Heap, Lyle G.	.618	.190	1.022	Wasp	98	Sierra	50	—	Gregoire	Taylor
8.	Clark, Sam, Jr.	.618	.411	.916	Wasp	Win.70	Clark	55	27–4895	Douglas	Douglas
9.	Butts, Manley	.626	.345	.869	Wasp	S'field	Butts	55	25–4895	Gipson	Gipson
10.	Bates, James M.	.628	.482	1.003	22–250	70	W.M.8S	55	23–4198	Gregoire	Hodge
11.	Jackiewicz, H. J.	.639	.353	1.013	Wasp	70	Sierra	55	29–4320	Winchester	Marciante
12.	Hallgrimson, J.	.644	.338	1.200	Wasp	70	Own		—	—	—
13.	Rich, J. G.	.655	.340	.874	Wasp	70	RCBS	55	—	Gipson	Gipson
14.	Hodge, J. G.	.656	.400	.936	22–250	70	W.M.8S	55	23–4198	Gregoire	Hodge
15.	Nelson, Rk.	.658	.364	.889	Wasp	98	Sierra	55	27.5–3031	Gregoire	Nelson
16.	Button, W. G.	.662	.319	1.160	Wasp	F.N.	Sierra	50	—	Gregoire	Taylor
17.	Cotter, W. E.	.665	.210	1.010	Wasp	Rem.30	RCBS	55	26–3031	—	Walker
18.	Schielke, Geo.	.670	.307	.875	Wasp	S'field	Sierra	55	27–3031	Pfeiffer	Schielke
19.	Hoyer, Al.	.689	.119	1.382	Wasp	98	Sierra	55	—	Gregoire	Hoyer
20.	Hakes, Francis	.693	.325	1.588	Wasp	98	Sierra	50	—	Gregoire	Taylor
21.	Ellis, J. M.	.695	.371	1.407	Wasp	98	Butts	55	27–3031	Gregoire	Wallack
22.	Douglas, Linus	.700	.379	1.181	Wasp	70	Sierra		28–4320	—	Miller
23.	Marciante, Al.	.705	.406	1.046	Wasp	70	Sierra	55	26–3031	Gregoire	Wallack
24.	Waite, M. D.	.709	.425	1.032	Imp. Swift	S'field	Sierra	55	37–4895	Ackley	Ackley
25.	Wallack, Betty	.716	.425	1.243	Wasp	F.N.	Sierra	50	27.5–3031	Gregoire	Wallack
26.	Southard, Gerald	.720	.482	1.202	Swift	70	Sierra	55	36–4895	—	Edsall
27.	Hubbard, Frank F.	.728	.490	1.035	Wasp	70	RCBS	50	19.5–4198	Winchester	Keel
28.	Martin, Lee J.	.733	.324	1.307	Wasp	—	—		—	Gregoire	Gipson
29.	Devenpeck, Frank	.734	.335	1.540	22–250	Rem.30	W.M.8S	55	—	Pfeiffer	Morse
30.	Curtis, Wm. B.	.750	.430	1.166	Wasp	70	Sierra	55	26–3031	—	Marciante
31.	Vail, R.	.757	.400	1.229	Wasp	98	Sierra	55	28–4320	Ackley	Vail
32.	Hauck, Wilbur J.	.767	.413	1.295	Wasp	Steigle	W.M.8S	55	29.5–4320	Buhmiller	Hauck
33.	Walters, H. B.	.809	.491	2.220							
34.	Gannon, W. C.	.822	.486	1.500	Wasp	98	Hicks	50	27–	Douglas	Douglas
35.	Karg, A. B.	.824	.486	1.099	Wasp	F.N.	Sierra	55	—	—	—
36.	Whelen, Townsend	.827	.531	1.835	Var.	98	W.M.8S	55	33–3031	—	Gebby
37.	Miller, D. J.	.834	.310	1.630	22–	98	Sierra	45	—	Johnson	Miller
38.	Fellows, D. M.	.834	.400	1.492	Wasp	98	Sierra	55	23.2–4198	—	Marciante
39.	Nelson, Leonard	.835	.510	1.155	Wasp	98	Sierra	55	27.5–4895	Gregoire	Nelson
40.	Leach, Chet	.844	.512	1.513	Wasp	98	Sierra	55	—	Gregoire	Hoyer
41.	Leek, Wayne E.	.863	.274	2.167	240	721	W.M.8S	85	—	Rem.	Morse
42.	Barr, A. H.	.873	.564	1.256	Imp. Swift	98	Baldwin	55	37.5–4895	—	Ackley
43.	Ermold, Walter	.876	.462	1.692	Wasp	98	Own	55	—	—	—
44.	Borowszewski, B.	.916	.557	1.320	Swift	70	—	—	—	—	—
45.	Cicora, L. D.	.928	.359	1.812	Wasp	98	—	50	—	—	—
46.	Rothrock, S. E.	.938	.452	2.143	Wasp	98	Sierra	50	28–4895	Gregoire	Hoyer
47.	Spicer, E. F.	.940	.522	1.418	22–250	70	W.M.8S	55	22.5–4198	Gregoire	Spicer
48.	Morse, Charles N.	.946	.606	2.930	240	98	W.M.8S	85	—	Pfeiffer	Morse
49.	Chadwick, K. R.	.947	.522	1.905	240	722	W.M.8S	85	30–3031	—	—
50.	Ottner, Harold	.968	.564	1.688	Wasp	S'field	Sierra	50	30–3031	—	Little

It took more than a 1918 Board of Education ruling to keep Helen Lothringer from realizing her ambition

By HARRY KURSH

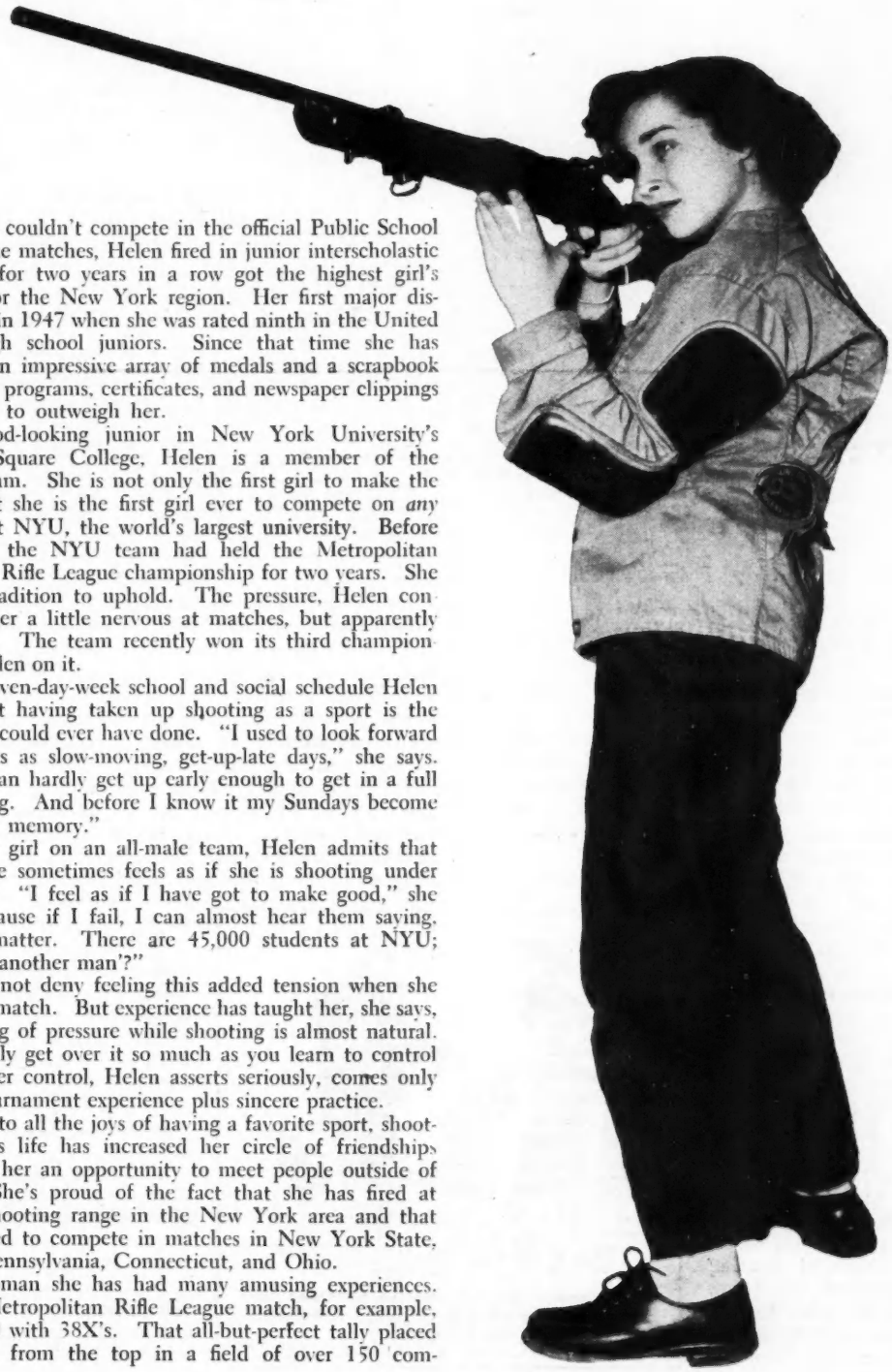
the GAL can shoot

BLUE-EYED Helen Lothringer is five-feet two inches tall, weighs all of 115 pounds and her immediate ambition is to get a heavy barrel for her Winchester 52 target rifle. Not yet twenty-one, Helen first took up shooting as a sport when she was a seventeen-year-old junior in Jamaica High School, New York. Since that time, in addition to what she calls 'the thrills of shooting', she has had fun winning medals, breaking records, and ripping through traditions that frown upon a girl taking up the sport—though Annie Oakley is a part of the American legend.

It all began when her younger brother, a member of her high school rifle team, started taking targets home. The targets were a source of intrigue for Helen. "I picked up an old air rifle," she recalls, "and began plinking at them. My brother said I was good. So I figured if I was good with an air rifle, I could be just as good with the real thing".

Right after that, Helen was at the school's rifle range learning to shoot. She set her first precedent: the only girl in the school's history with rifle-team ambitions. That same year Helen became a member of the school's rifle team. Another record broken: The first girl actually to become a member of the rifle team. The boys on the team were delighted. Helen *could* shoot!

But her principal did not approve. He dug up a 1918 Board of Education ruling which said that girls could not play on boys' teams. He had her dismissed from the team—but not before her record of being the first girl to join the team set a new fashion for Jamaica High School. The boys on the rifle team began bringing their girl friends to the firing range as 'guests'; and it wasn't long before a number of Jamaica girls were seen toting rifles as well as textbooks.



Though she couldn't compete in the official Public School Athletic League matches, Helen fired in junior interscholastic tourneys and for two years in a row got the highest girl's junior score for the New York region. Her first major distinction came in 1947 when she was rated ninth in the United States for high school juniors. Since that time she has accumulated an impressive array of medals and a scrapbook of tournament programs, certificates, and newspaper clippings that threatens to outweigh her.

Now a good-looking junior in New York University's Washington Square College, Helen is a member of the varsity rifle team. She is not only the first girl to make the rifle team, but she is the first girl ever to compete on *any* varsity team at NYU, the world's largest university. Before Helen joined, the NYU team had held the Metropolitan Intercollegiate Rifle League championship for two years. She had a great tradition to uphold. The pressure, Helen confesses, made her a little nervous at matches, but apparently without harm. The team recently won its third championship—with Helen on it.

In a busy seven-day-week school and social schedule Helen finds now that having taken up shooting as a sport is the best thing she could ever have done. "I used to look forward to my Sundays as slow-moving, get-up-late days," she says. "But now, I can hardly get up early enough to get in a full day of shooting. And before I know it my Sundays become another happy memory."

As the only girl on an all-male team, Helen admits that at matches she sometimes feels as if she is shooting under great pressure. "I feel as if I have got to make good," she reveals. "Because if I fail, I can almost hear them saying, 'What's the matter. There are 45,000 students at NYU; can't you find another man'?"

Helen does not deny feeling this added tension when she competes in a match. But experience has taught her, she says, that the feeling of pressure while shooting is almost natural. You don't really get over it so much as you learn to control it. And greater control, Helen asserts seriously, comes only with added tournament experience plus sincere practice.

In addition to all the joys of having a favorite sport, shooting in Helen's life has increased her circle of friendships and has given her an opportunity to meet people outside of New York. She's proud of the fact that she has fired at every major shooting range in the New York area and that she has traveled to compete in matches in New York State, New Jersey, Pennsylvania, Connecticut, and Ohio.

As a riflewoman she has had many amusing experiences. In a recent Metropolitan Rifle League match, for example, she scored 500 with 38X's. That all-but-perfect tally placed her thirteenth from the top in a field of over 150 com-

In addition to her courses at NYU's Washington Square College and her rifle shooting, Helen studies art weekdays at the Parson School of Design

petitors. The prize for thirteenth place was a five-dollar bill and a man's hat!

Sometimes being a girl in a man's world creates other predicaments for Helen. Only a keen sense of humor helps her to laugh them off. On a trip up to West Point with her NYU teammates, Helen encountered some of the academy's famous for-men-only traditions that greatly restricted her movements around the picturesque grounds. And when her team was invited for lunch in the renowned Washington Hall, even the 'officers and gentleman' code could not break through the no-woman rule. Helen had to wait outside while her teammates ate. Helen laughs and says she chalks this up 'to more experience'.

There was one other tradition Helen did not break. When she first joined her college team, some of the boys grumbled because there would be no more customary pants-changing on the range. After the demure coed proved her ability with a rifle, she became 'one of the boys', and by an unwritten agreement Helen tactfully looks the other way or does not come onto the range until her teammates have had a chance to change their trousers.

Her college coach, Master Sergeant Michael Murry, a Regular Army man assigned to the school's ROTC unit, says that Helen knows more about all phases of shooting than anyone else on the team. Helen, however, is quick to add that she does not consider herself among the top shooters on the squad. "As far as I am concerned," Helen declares earnestly, "I'd rather be consistently good than a leading light. I prefer to be a reliable support for my team rather than a star".

To achieve this aim, she has to watch her progress as a shooter carefully. "I don't measure my progress from week to week," Helen discloses, "because I know the process of learning is not a smooth nor consistent one. For example, when I first learned to shoot, I found my scores climbing sharply. Then they began to level off and occasionally drop. I find it consoling to understand the process of learning, and I keep discouragement away by gauging my progress over semiannual or yearly periods".

In addition to her courses at Washington Square College, Helen attends the Parson School of Design five days a week from 9 to 4:30. After realizing her ambition of becoming an art teacher, Helen intends to concentrate on prone shooting outdoors. She believes that for indoor range shooting you have to be in top physical condition, getting lots of sleep regularly for steady nerves.

Though she is one of the few women in the country to hold an indoor and outdoor Master Rifleman's rating with the .22, Helen prizes more highly her NRA Distinguished Rifleman rating, won when she was eighteen. "At that time," she says, "a Distinguished medal was my biggest little ambition. It gave me the incentive to practice. And even more than that, it gave me the feeling that I was out to achieve something and not just burning up a lot of ammo for nothing".

Since she started shooting, Helen estimates that she has been in several hundred matches. On her college team during the regular season between November and April she faces one of her heaviest schedules, with a minimum of twenty intercollegiate competitions, individual tourneys, matches with private associations, and participation in matches sponsored by private schools. This year with Navy and Cornell on the roster her team expects one of its toughest schedules.

In a sports-minded family that includes three brothers, a mother who will travel anywhere in the world for good fishing, and a father who was one of the original founders of the Woodhaven American Legion rifle club a generation ago, Helen, strangely, did not take up shooting without some family opposition. Her father, a physician who likes to call himself 'just a country doctor at heart', was afraid that when Helen began shooting the pressure of being a lone girl in an all-man sport would have been too discouraging. But Helen does not discourage easily. When she began bringing home medals her whole family, father included, boasted of another addition to the 'Lothringer sports clan'. Her older brother, also a physician, is another rifle-shooting enthusiast.

"I really wasn't too much against Helen becoming a rifleman," her father says. "I only wanted to make it perfectly clear to her that when she took up the sport she would have to be as independent as any man. 'If the team goes out to a match,' I told her, 'you pay your own carfare and pick up your own dinner check'."

Chuckling, Helen says she has observed all the rules since. And she's glad she did. "When I get married," she warns, "my husband will have to recognize my rights as a sportsman, too. He won't be going off on fishing trips alone with the boys. I can come along too—with my rifle!" ♦ ♦ ♦

"Look, Henry. We get both the mountains and the seashore by going to the NRA Convention in San Francisco."

So You're Going to Africa!

(Continued from page 13)

be in the form of a double and will weigh from ten pounds up, depending on caliber. If you rent the double from your white hunter, you will have little choice. If you purchase one, you will do well to stick to either the .465 caliber or the .470 because many of the less-popular calibers are being discontinued, and the availability of cartridges is a big factor.

Both solids and soft-nose bullets are required for your heavy rifle. You will need solids for your elephant, rhino, and for a wounded buffalo (which will frequently afford a frontal shot). For a wounded lion or leopard, you should use soft-nose bullets in both barrels. One hundred solids and fifty or seventy-five soft-nose cartridges ought to be ample.

Shots with the heavy double will mostly be taken at close range—surprisingly close! Forty yards is a long shot for elephant. Most buffalo or lion will be killed at a range under 100 yards.

Rifle and ammunition permits must be secured. They will be issued at the Office of the District Commissioner in Nairobi upon presentation of your receipt from the Customs Officer, showing that you have paid the necessary deposit of 22 percent on all rifles and ammunition. Incidentally, your camera films are subject to an import duty of 22 percent. This duty will be figured on the value of your guns, ammunition, and films. The duty on the rifles is really a deposit which will be refunded if your stay is of less than six months.

The district in which you will do your hunting is dependent upon the type of game you most desire, and the portion of the country with which your white hunter is most familiar. The most and largest elephants are found in the Northern Frontier District of Kenya. The biggest buffalo and the longest-horned rhinos seem to be on the slopes of Mount Kenya in Kenya. If you desire a decently maned lion, Tanganyika is the only place in which you can find one. Plains game can be found either in Kenya or Tanganyika, but the most pleasant place to hunt them is in the Masai country of Kenya.

Costs of licenses are:

Kenya:

General License	£ 75	(at $2.80)	—$210.00
Rhino license (2 allowed)	£ 10	each —	28.00
Ostrich license (2 allowed)	£ 1	—	2.80
Giraffe license	£ 20	—	56.00
Elephant (first elephant)	£ 50	—	140.00
Elephant (second elephant)	£100	—	280.00
Special fourteen-day license	£ 10	—	28.00

One can kill over one hundred head of game on a Kenya general license, including one lion, one leopard, one cheetah, although no hunter in his right senses would care to kill more than a small fraction of the allowable limit. A Kenya license can be purchased in Nairobi, at the Government Building.

Tanganyika:

General license	£ 50	—$140.00
Rhino	£ 10	— 28.00
Ostrich (two allowed)	£ 1	— 2.80
Elephant (first)	£ 20	— 56.00
Elephant (second)	£ 30	— 84.00

About 250 head of game are allowed on a Tanganyika license, which can be obtained in Arusha, Lyamunga, or any Government Post.

There are no closed seasons on game but one should plan the hunt during the dry seasons, which extend from the end of May until the beginning of November and from the latter part of December to the middle of March.

If a hunter dotes on elephant, he should get a Kenya general license and hunt his elephant there. If he is not interested in elephant, he can save money by buying a special fourteen-day license for Kenya, kill some plains game there, and then go into Tanganyika for his lion and additional plains game. Good buffalo and rhino are to be found in Tanganyika. If one desires sable antelope and greater kudu, he will have to go to Tanganyika. They are the prizes of the antelope family.

Outside of license and transportation cost, the expense of an African safari is about the same as that of an Alaskan hunt. Prices now range from about £650 to £850 per month per hunter. With the pound at $2.80, that means a cost of about $1820 to $2380 per month.

A safari for a representative bag should extend for at least two and a half months. If elephants are omitted, less time is necessary. If sable and kudu are not desired, the time can be reduced even further. All travel is now done by shooting car and truck. The day of the foot safari is over. When camp is reached, hunting is done by means of the car and by foot. No game is chased by or approached in the car, and all stalking is done on foot. Game laws are strictly adhered to by the white hunters, and an excessive kill is justifiably frowned upon.

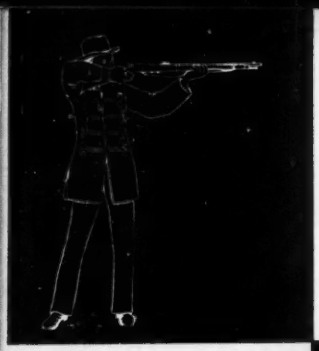
Much of the present-day elephant hunting is done either in the leafy, thick jungles along the banks of one of the rivers, such as the Tana River, or in the sandy flat desert country covered with scattered thorn trees that are adjacent to these jungles. Elephants drink at a river or waterhole at night and frequently travel for miles into the thorn bush where they browse and rest during the day.

Most of the antelope, gazelle, and buffalo are found on the high rolling plains country, five or six thousand feet above sea level. This country is a beautiful rolling grass country studded with thorn thickets and criss-crossed by frequent dongas, the banks of which are shaded by trees and thick brush. In the latter are the big cats. Rhino inhabit both plains and forests. Kudu, roan, and sable antelope generally inhabit mountainous regions.

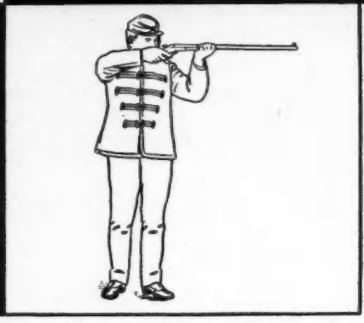
Mounting of trophies, and the preparation and shipment of them is attended to by Mr. P. Zimmerman, Box 2127, Nairobi. This gentleman is the only taxidermist in Nairobi.

Africa is a fascinating country from many points of view. A trip there is very much worthwhile even if one does not fire a gun. If you don't believe it, ask my wife. We are leaving Nairobi together in April for another safari of about six months. ♦ ♦ ♦

NEXT MONTH: *Look for a picture story showing the step-by-step production of a rifle barrel by Arizona gunsmith Bill Sukalle. Also, John E. Parsons with a study of Belgian Colt revolvers . . . Charley Askins on trick shooters from Buffalo Bill to his old friend Ad Toepperwein . . . William Piznak on new military semiautomatics . . . double-action handgun shooting . . . and Al Barr with loads for the .375 H.&H. Magnum.*



MEMORIES OF WALNUT HILL

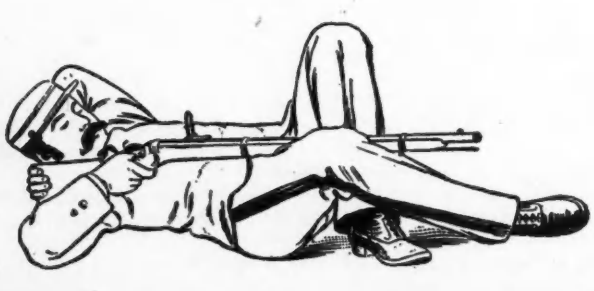


By

A. O. NIEDNER

as told to JOHN J. BARSOTTI

Another Nostalgic Chapter from the Reminiscences of One of America's Great Gunsmith-Riflemen of Yesterday

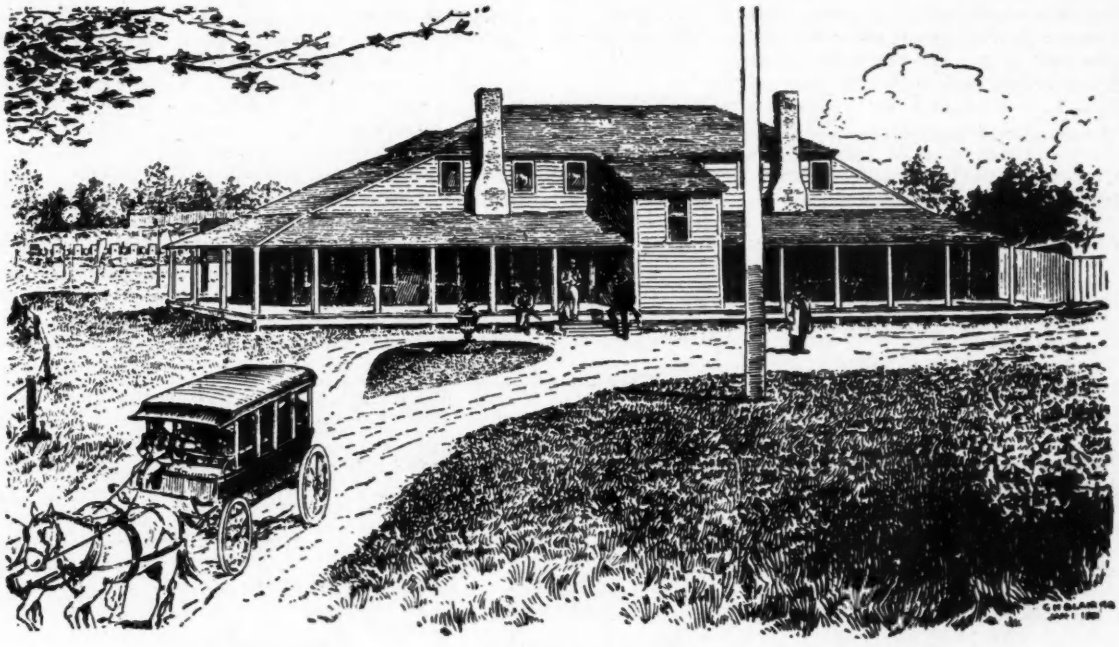


When I started shooting with the Massachusetts Rifle As sociation in 1900 old Walnut Hill range was a grea place for riflemen. I'd just moved back east from Milwauke and was living in Malden. It doesn't seem so long since thos days but when I add up the years and think of the men wh used to shoot there—well, it was a long time ago.

There was D. L. F. Chase, Reverend Mead, a minister wh was a good shot, H. L. Willard, the Russell brothers, Mr. Fr Daniel Fox, Dr. Hudson, the great offhand shot, Major Hind man, Professor Bell, Tom Anderton and Eugene Patridge both fine pistol shots, Mr. Warren, Jim Keough, Harry Pop the barrel-maker and a great shot too, Mr. Spencer, A. G Gould, the writer who started the magazine we know toda as The American Rifleman. And there was John E. Kelle another fine offhand shot, Dr. Baker, Mr. Thompson, Wi Hayes and his brother, Linwood Lewis, Mr. Lynch. And, course, Dr. Mann's name couldn't be left out of any accou that had to do with the days at Walnut Hill. Other shoote like Ed Leopold and John D. Kelley of Pennsylvania and Ne Roberts, F. J. Sage, and Milton Farrow came there from tim to time.

The Massachusetts Rifle Association began back in th 1870's, when I was a boy. The first shooting matches we held on the German Rifle Association range at Spy Pon Then Walnut Hill range and railroad station were built an people have been shooting there ever since. A shooter cou reach the range by train from Malden or Boston or so other city. The railroad company issued a special ticket th was good for ten rides to and from the range. There weren many weeks in the more than twenty years I lived at Malde that I missed going to Walnut Hill to shoot.

The range had a nice clubhouse, a shooting house, and caretaker's cottage. If someone drove down by buggy he cou put his horse up in the stable on the range grounds. As I r



The Massachusetts Rifle Association began back in the 1870's, when I was a boy. Its range, at Walnut Hill, had a nice clubhouse, and firing points from 50 yards on up to 1,000

call, ranges were from 50 yards on up to 1000. We had about twenty firing points on the 200-yard range, ten on the 300, and six on the 500. There were 2 or 4 firing points for those who wanted to shoot at 1000 yards. Also, there were pistol ranges.

Among the fine bench-rest shooters at Walnut Hill in the early 1900's were D. L. F. Chase, Willard, Mr. Fry, and the Russell brothers. They shot from heavy plank benches built especially for that kind of work. The muzzle rest on the front of the bench for the barrel of the rifle had a wedge beneath that fitted into a slot in the rest, and this wedge could be worked back and forth by a lever on the side of the bench so the shooter could adjust the muzzle of his rifle for elevation. Another wedge fitted under the toe of the stock. With the rifle sighted in on the target at 200 yards, shooting from the bench was about the same as shooting from a machine rest. Some of the bench-rest men didn't use the wedge under the toe of the stock but shot with the butt of the rifle against their shoulder. Others set the rifle in position on the bench, sighted on the bull, and stood alongside the bench and watched the flags until the wind died—then they'd touch off the shot. I've seen a bench shooter wait on the wind for fifteen minutes. Some wonderful groups were made by those bench-rest shooters at Walnut Hill. I saw a number of groups of ten shots fired at 200 yards that could be completely covered by a silver dollar. Most of them shot .32-40 and .38-55 caliber rifles, single-shot Ballards, Maynards, Winchesters, Stevens, and other makes popular as target rifles in those days. They were fairly heavy rifles with fine peep or full-length telescope sights and double set-triggers; some of them had especially made barrels.

There were several devices got up and used at Walnut Hill to help in doping wind. One was an affair like a windmill that we called the "Rattler". Another was a kind of pendulum that swung harder the more the wind blew. The bench-rest shooters would also string four or five inflated toy balloons out along the 200-yard range and watch the movement of them before firing.

These shooters loaded their rifles with extreme care; that was one of the secrets of the fine groups they shot. Some of them had false muzzles on their rifles, like those on the old percussion match rifles, and seated the bullet from the muzzle. Others breech-seated the bullet with a special tool, the bullet being seated in the bore 1/16 to 1/32 inch ahead of the mouth of the case. The rifle was held with the muzzle up to insert the charged case. They weighed all their bullets, powder charges, and primers. Some of them used lubricated bullets and some used bullets with the Chase paper patch which was got up by D. L. F. Chase and went once around the bullet. The Chase patch dropped off when the bullet left the muzzle of the rifle and it was an improvement over the Sharps paper patch, which sometimes caused a wild shot by failing to drop off the bullet. Those old-time shooters who used the Sharps-type patch would often slit them up the side with a sharp knife before seating them in the bore. Those paper patches were shot dry, not oiled like the cross paper patches used by percussion match rifle shooters. A few hundred shots with dry patches would polish the bore of a rifle like glass.

Shooters also took a lot of care in cleaning the bore of the rifle between shots. After each shot a Fisher brush was dipped in a jar of water and pushed through the bore. This brush had a bristle tip with a series of rubber discs behind it. Then red, blue, and one or two white patches were pushed through the barrel on a double-slotted ramrod, one after another, to clean and dry the bore for the next shot.

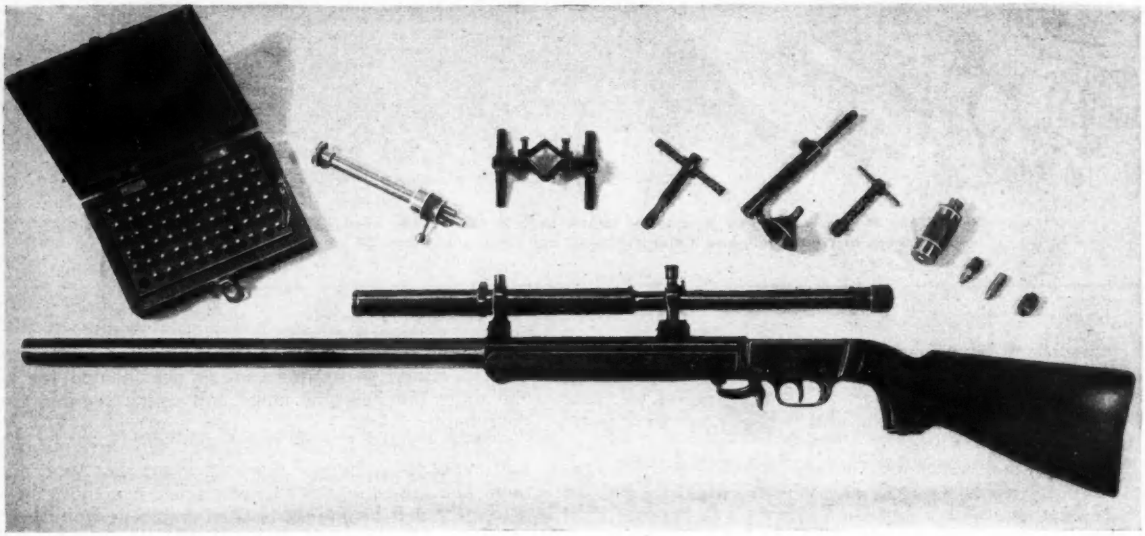
It sounds as if all the care taken to load and fire in that type of shooting wouldn't give a man time to fire more than a few

shots in an afternoon but that is not so. A veteran shooter would load and fire 100 shots in two and one-half or three hours. The bench-rest shooters were after a 200-yard possible or a record-breaking group, and some of them who made that goal seemed to lose interest in shooting afterwards and quit. I guess they had nothing left to shoot for.*

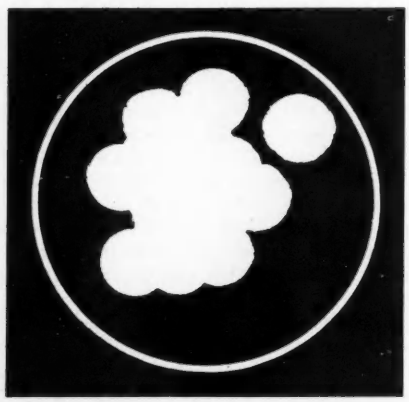
* Some remarkable scores were fired at Walnut Hill by the men Niedner tells about. The old files of *Shooting & Fishing* magazine give accounts of the best groups and scores. For instance, in the September 3, 1896 issue, there is a report of H. L. Willard firing a 13/16-inch group for ten shots at 200 yards. Dr. S. A. Skinner fired thirteen shots at 200 yards that measured 1-3/16 inches and fired 45 shots at 200 yards for a group which measured 4-3/16 inches. All were fired with .38-55 caliber rifles. Niedner witnessed the firing of Dr. Baker's famous thirteen consecutive hits on the one-inch center of the Columbia target and saw many other fine targets made during those days.

Let me tell you about an argument I had with those bench shooters. I claimed some of them were shooting too much powder, more than would burn in the bores of their rifles. To prove my point, I stretched a roll of wallpaper out along the ground in front of several benches one day and after they had shot all afternoon I gathered up the unburned powder that had been blown out. I had enough to load eight shells of .38-55 caliber.

At Walnut Hill there were as many as 400 men shooting on weekends. Militia and naval companies used to go there for rifle practice. Some of them used the .45-70 Springfield single shot and the naval men had the 6-mm. Lee, a straight-pull bolt action that made an awful racket on the opening and closing of the action. Most of the military men were poor shots and when they were there we had a lot of complaints and trouble over bullets leaving the range. Bulkheads were put up over the targets to stop high shots, which helped



Niedner's last rifle is an underhammer muzzleloader with 16-power Sidle telescope and false muzzle



Here is proof of the phenomenal accuracy of Niedner's muzzleloader. This ten shot group was fired at 200 yards, bench rest, by Niedner in August of 1939

'DAD' NIEDNER'S LAST RIFLE

After years of developmental work in the fields of arms and ammunition, A. O. Niedner has turned again to the rifles of his youth. This superbly accurate muzzleloader was built for William M. McQuerry of Jeffersonville, Indiana. Using a bullet with paper patch, modern rifle primers instead of percussion caps, and bullets swaged under two tons pressure, it represents perhaps the highest development of the muzzleloading rifle. Since he built it, 'Dad' Niedner has retired. Thus it is also probably the last rifle that will be built by one of our great riflemakers of the generation of Pope, Schoyen, Peterson, Niedner and Zischang. Photographs are reproduced from N. H. Roberts' "Muzzleloading Cap Lock Rifle", 2nd Ed., 1948.

A. O. Niedner, photographed with his wife during a 1910 chuck hunt

some. A lot of shooting was done at Walnut Hill. Once when we got hard up for funds we dug seventeen tons of lead out of the backstop and sold it.

One of our best shots was John E. Kelley. John Kelley was a good friend of mine and we shot together in a lot of matches at Walnut Hill and on other ranges in the east. He was a great offhand shot. I remember once I shot a 96 offhand at 200 yards on the Standard American target for a new Walnut Hill record; then John Kelley shot a 96 too. Later, I shot a 97 and John Kelley shot a 97. After I had moved to Dowagiac, Kelley shot a 98 offhand at 200 yards. Every time someone broke a record at Walnut Hill he was given a little silver cup with the score and date and his name engraved on it.

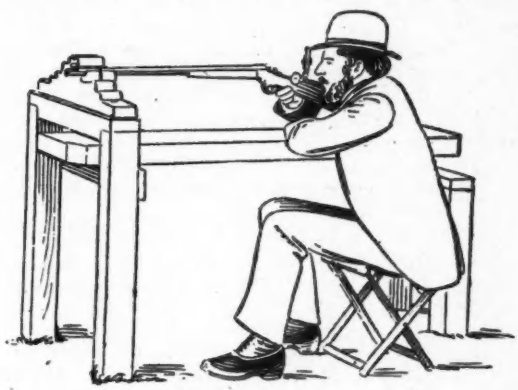
The hundred-shot match we used to fire at Walnut Hill was a tough one. It called for ten full scores of ten shots each at 200 yards offhand, globe and peep sights. We had to keep all the hundred shots inside an eight-inch circle. If we got out of that eight-inch circle, we had to start over no matter how many scores we'd fired. Every year a fine gold medal was put up as first prize in this match and up until the time I moved out to Dowagiac only John Kelley, Harry Pope, and myself had ever won it.

I was on the range one afternoon when John Kelley was shooting the NRA match, a military match which called for three scores—one at 200-yards offhand, one at 500-yards prone, and a third at 300 yards from the kneeling position. Kelley asked if I was going to shoot the match and I told him no, because at that time I had no .30-caliber Springfield rifle. He said I could use his rifle so I took him up on the offer. We both fired the offhand match and then Kelley said he would fire the 300- and 500-yard matches and turn the rifle over to me so I could finish my scores. He was in a hurry as he had to make the evening train into Boston. After Kelley had finished shooting, I took the rifle and shot my score on the 500-yard range, and then went to the 300-yard range. It was late and all the targets were down and after I got a target up it was so dark I couldn't see the bullseye. Jim Keough, an armorer at the Wakefield Armory, was still on the range and asked what my trouble was. I told him and he said, "You can see the target frame, can't you, Niedner?" When I told him I could, he took Kelley's Springfield, set the military sight, and said to hold in the middle of the bottom of the frame. I did as he said and shot a 48, a score which won the match and the NRA medal.

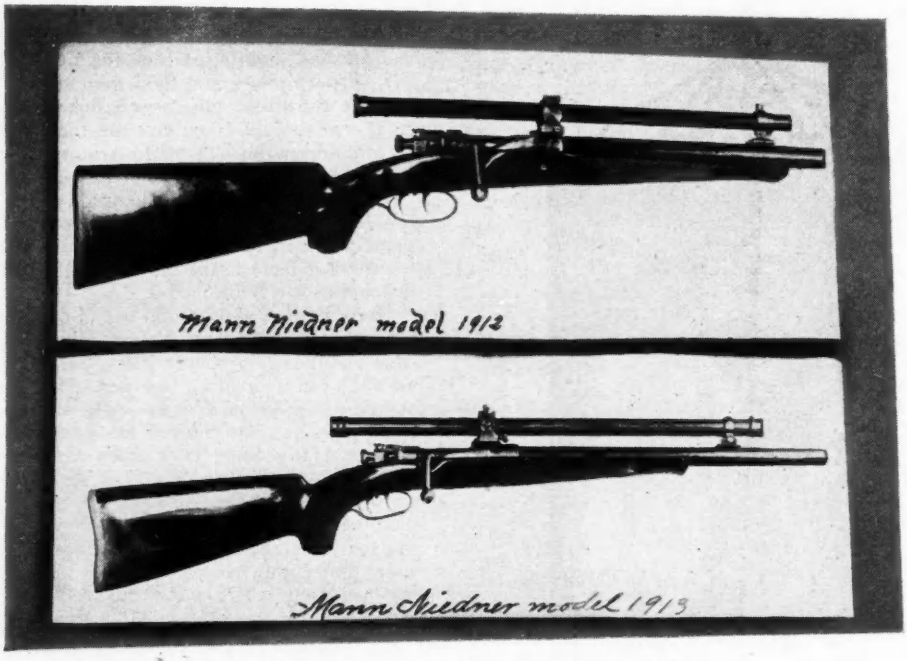
Harry Pope is another old friend of mine from back in the Schuetzen days and at Walnut Hill. I haven't seen Harry since about 1923 at Camp Perry, but when I lived in the east we did a lot of shooting together. Harry was a very fine shot as well as a great barrelmaker. He was a nervous man but he could poke 'em into the bull from the offhand position.

After Harry came back from California, where he lost about all he had in the San Francisco earthquake, he went to work for John Sidle, the telescope-sight maker, in Philadelphia. Early in 1908 he wrote to me about the possibility of the two of us going into a partnership. I wasn't too keen about going into business with anyone at that time as I had my own shop, which was doing well. Now don't misunder-

The bench rests of today are not too different from those of 1885



stand me—I knew Harry Pope and what kind of a workman he was. He was a genius. He didn't work by guess. He had a good education, in fact he was a graduate of M. I. T., and, like William Lowe, he was a very fine craftsman. Also, he had a good reputation as a shooter. But both of us had our own ideas about riflemaking. I wrote Harry that I would think it over, meantime offering him the freedom of my shop until he could get on his feet financially. I asked Dr. Mann, who knew us both and what kind of work we did, what he thought about the possibility of Pope and I going into a partnership. Dr. Mann told me no shop was big enough to hold the two of us. He said the only way that Pope and I could get along together in business would be to have a building with Pope's shop in one end and my shop in the other—with Ed Leopold in an office in between to handle correspondence, keep books, and see that neither Pope nor I would go into the other's shop. Well, I met Harry in New York and we talked the partnership idea over but came to no agreement or decision. Not long afterwards Harry set up shop in Jersey City, where he stayed until he retired.



Two rifles made by Niedner. Above, the 'Hamburg' rifle of 1912 and below, the screw-bolt or 'improved Hamburg' rifle of 1913, chambered for the Krag cartridge case necked down to .25 caliber

Harry had a habit of paying no attention to his correspondence. He was a busy man who would let the mail pile up on a box or bench in his shop. When he had finished a barrel he was working on, he'd start to open letters, working down into the pile until he found a letter asking for the kind of a barrel or job he was interested in. He'd start on that job and throw the rest of the opened letters into the wastebasket. Even Dr. Mann had a hard time getting Pope to answer letters. He would write Pope by registered mail in order to get Harry to answer him right away.

I used to see a lot of Harry at matches at Walnut Hill and on other ranges in the east. When a bunch of us were attending a match at Union Hill or near New York we would stay up all night before the match. John Kelley, Pope, Mr. Lynch, and the rest of us would go from one place to another over the city, and the next day we wouldn't have a nerve left. We didn't drink much, just wore ourselves out. At least most of the good shots went easy on the liquor.

Harry Pope and I watched one of the funniest things I ever saw happen at a match. It didn't happen at Walnut Hill but it was a part of the good times we used to have in those days. A group had gone down to Union Hill, New Jersey, to a big Schuetzen match. A wealthy man, who had come all the way from the west coast to shoot in the matches, had started drinking on the train and kept it up through the match at the clubhouse on the grounds, which was known to the old-timers as "The Castle."

The last day of the match came and it was raining. The wealthy man who had made the trip clear across the country hadn't fired a shot yet. His friends talked him into firing the Honor target, three shots offhand at 200 yards on the German ring target. The man got up and took his position, the rifle wobbling, and touched off his first shot. In a moment, the American flag came up from the pit indicating a 25, a hit on the 1½-inch center of the target. He let out a whoop and told everyone to come up to "The Castle" for a treat. He ordered champagne all around. When we'd had our drinks, we marched back to the range. He got in position, took aim, and fired a second shot. Up came the flag again! Another 25! Back we all went to "The Castle" for another round of champagne. It was a circus. When he went back for his last shot he was lit up right. It was raining hard and he wobbled all over the target but when the rifle cracked the flag came up a third time. The crowd whooped things up and everyone followed the happy, tanked-up shooter back to "The Castle" for a grand celebration. It must have cost him hundreds of dollars. He'd won a match and made a perfect score and he was celebrating. Later on one of the big rifle companies named a special Schuetzen buttplate for him.

The joke was a shot never touched the target, or if it did get on, the shot wasn't near the 25 ring. Pope and I watched the whole thing. The rain was washing the pasters off the target and, since there were some shots already in the 25 ring, the boy in the pit gave him credit for a 25 every time. I doubt if he ever hit the target at all, but nobody cared. The man from the west coast had had a great time and went home happy and full of champagne.

But to get back to Walnut Hill. We had some good pistol shots there, too, as well as riflemen. There was Eugene Patridge, the man who designed the sight named for him (I made the first one for him in my shop in Malden). Tom Anderton was another pistol shooter. I often shot revolvers with Anderton, who was rangekeeper at one time at Walnut Hill, on targets up to 200 yards. After soldering a high rear sight on the top latch of my .44 Smith & Wesson, the one I'd carried in the Apache campaigns in Arizona, and using heavy black powder loads, it shot fine at long range. Anderton was a mighty good shot with either rifle or pistol and also a great whisky drinker. In later years, he became armorer for the 71st Regiment in New York City.

Then there was Henry FitzGerald, who was known to a lot of pistol shooters all over the country. Henry worked for his stepfather in a general store up in New Hampshire, where you could buy anything from nails to a coffin. Henry would fire 100 shots every day before he opened the store but he always practiced by himself. He got to be a fine shot but he

was no good under pressure. He'd go to pieces in a match when there were some good shots to compete with. I've seen Henry FitzGerald sit down and cry because he felt so bad about blowing up in a match. I guess he'd practiced so much alone that it had ruined him for match shooting. That's the way it works sometimes. He could give a wonderful exhibition of pistol or revolver shooting. I got him to come out to Walnut Hill and shoot with the pistolmen in order to steady him down, but it didn't do any good. Henry came to my house in Malden and lived with my wife and me for quite awhile, until he went to work with the Iver Johnson Company. Later, he got a position with Colt's and was there the rest of his life. He was a powerful man with big hands, and he could jerk an automatic pistol apart in a flash. Every summer Henry would go out to Camp Perry to the National Matches for the Colt company and work on .45 automatics. He died just after he retired in the summer of 1945.

Professor Bell was the same way when it came to competition. He couldn't stand up under pressure. Once he got so disgusted at Walnut Hill that he threw his pistol down on the range and walked away. Pressure never affected me that way. If I was shooting on a team in a match, I liked to shoot last so I would know what kind of a score was expected of me. Pressure just made me buckle down harder. If I got a bad shot, I would take care to put the next one in to make up for it.

When I was shooting at Walnut Hill, I complained to Major Dooley, of the U. S. Cartridge Company, about the poor accuracy of the .22 long cartridges then on the market.

"Why don't you improve the accuracy of the .22 cartridge if it doesn't suit you?" Dooley asked. I told him I couldn't get cases or powder. He said he'd take care of that and he gave me ten thousand primed .22 long cases and twenty-five pounds of Lesmoke powder.

When I had a chance, I made up an adjustable mould for the .22, so I could cast bullets of different lengths, and loading dies. I experimented awhile and finally I got a 40-grain bullet that gave good results. Then I called Major Dooley to come down and see what I'd been doing with the .22 rifle.

We went over to Dr. Mann's range and I put a rifle in the machine rest and fired 100 shots at 100-yards range and kept all of them inside a two-inch circle. Major Dooley took a box of the cartridges I'd loaded back to the U. S. Cartridge Company at Lowell and they brought out the U.S. C. Co. Lesmoke NRA .22 long rifle based on my design. Later, I began to use the .22-caliber rifle at Walnut Hill and in August 1915 made the first possible with it on that range, shooting prone.

I experimented with .22-caliber cartridges in short rifle barrels and found out a lot of things about them. I made a fifteen-inch barrel and fitted it to a Stevens action and shot this for two years at Walnut Hill in the NRA matches and was high man. The fifteen-inch barrel was the shortest I could use and still shoot prone; a shorter barrel would interfere with my left hand. I had a lot of fun with that short-barreled rifle. It was a take-down. I would walk on the range and the men would ask me where my rifle was. I would reach into one hip pocket under my coat and pull out the action and stock, then the barrel out of the other pocket, screw the two together, and be ready to shoot. I found that a 7½-inch barrel will give all that there is in a .22 long rifle cartridge but we all know that a barrel so short won't make a rifle that can be shot prone or offhand. I have talked with Harry Pope and Peterson about short .22-caliber barrels and they found it the same as I did. I found that a .22-caliber barrel, say, 31 inches long, shot from a machine rest, would shoot fair. But taking the same barrel and cutting it into three pieces, ten inches long, all three pieces would make the very smallest groups. This is due to the fact that fouling was blown out of a short barrel where it would cake in a long barrel and give a wild shot now and then.

Out at Walnut Hill in those days all of the offhand shots had a habit of calling their shots, and we could do it pretty accurately most of the time. Colonel Nathaniel C. Nash, president of the National Rifle Association a few years ago, as a young man used to come to Walnut Hill range with his father. He was watching me shoot a .32-40 Ballard one day at 200 yards and I was calling shots as usual. Young Nash watched awhile and then spoke up and said, "Why, you can do it every time".

"Oh, yes," I told him, "and I am willing to bet a dollar I can tell ten shots correctly as I fire them." Nash took me up. I loaded the Ballard and fired into the backstop and said, "That's a miss." Young Nash looked puzzled but he didn't say anything. I loaded and fired twice more into the backstop, and each time I said, "That's a miss." After the third shot, he began to laugh. "You win, you win," he said, but it was just a joke and I wouldn't take his money.

Judge Cram of Maine, who came to Walnut Hill to shoot, was quite a character on the range. He was a very powerful man who shot a .45-caliber Sharps rifle. It was the heaviest rifle I ever saw used in offhand shooting. That rifle must have weighed 30 or 35 pounds. The Judge had put a section of two-inch steam pipe around the barrel of the Sharps, making a full-length jacket, which he had poured full of lead. The sights were tied on top the steam pipe with shoemaker's thread. It made a rough looking outfit and it was a real armful to handle. The Judge would dip the bullet end of his cartridges into a tin full of tallow before shoving them in the chamber and when he was done shooting that rifle was a hell of a looking mess, the breech and action smeared with tallow.

About the time of World War I, Captain Gerrish and I went over to Camp Plunkett together to shoot in the 1000-yard match. Gerrish, well-known at Walnut Hill, was a good sport and a good rifle shot. An awful wind was blowing that day at Camp Plunkett, a regular gale, and out of about a hundred and thirty shooters who had come down to shoot the 1000-yard match, only eighty or ninety came out on the firing line. The wind had scared the rest of them out. Captain Gerrish and I were shooting side-by-side on the first two targets on the left-hand side of the firing line and I was on target No. 1. We were both shooting .30-caliber Springfields. Neither of us could get a sighter on the target because of the wind. I kept holding off to the left, into the wind, hoping to get a shot on the paper. About 200 yards behind the 100-yard butt, off to the left of the butt a little, was a tree with a big

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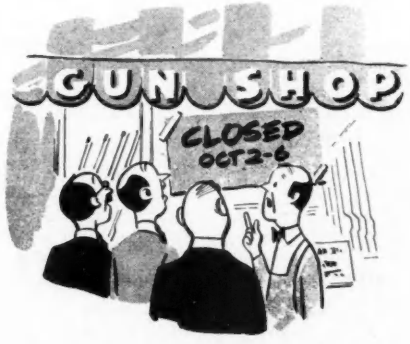
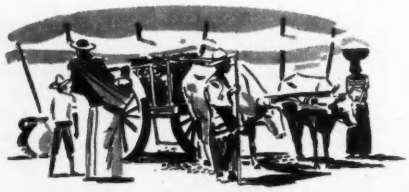
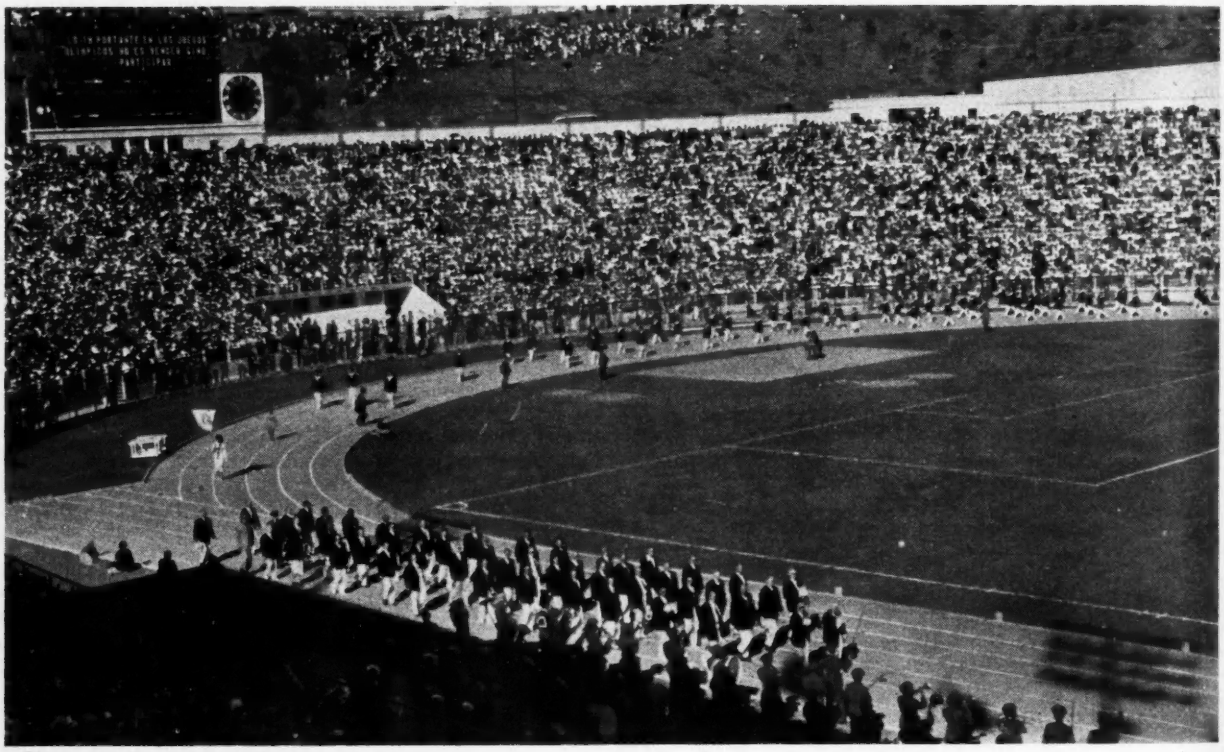


"There's more business at the NRA Convention in San Francisco"



International shooting competition is on the come-back trail in a big way. Newest addition is the 'Little Olympics', held this year in mountain-studded Guatemala



Opening ceremonies were held in this crowded stadium

REPORT FROM

GUATEMALA

By PHIL ROETTINGER

HOW MANY TIMES during a shooting match have you wished for a little time off to relax, to go swimming, or to take it easy generally? It seems that when we go to big matches in such interesting places as Florida, California, or the like, all we have time for is shooting. Shooting from break of day until the sun goes down behind the butts. There is never time for play except in the evening when everybody is pretty well fagged out from the bitter competition of the day. If you have wondered about that situation as often as I have, you should try a match such as the one included in the 'Sixth Sports Games of Central America and the Caribbean', held in Guatemala during February and March. Let me tell you how they take their shooting in the Land of Eternal Spring, as the guidebooks call it.

Scheduled in the games was an impressive array of events. There were matches for free pistol, smallbore free rifle, service rifle, Olympic rapid-fire pistol, plus a few matches similar to our National Match Course with the pistol, as well as a skeet tournament. That schedule would tend to keep the competitors rather busy, so in order to prevent undue strain and fatigue, with a couple of exceptions, only one match per day was fired. That one wound up around noon! That afternoon and the following day were free with absolutely nothing to do. Then another match and another day off for fun and frolic. That, gentlemen, is the way I like to see a match run!

All this began with a request from the Guatemalan Olympic Organizing Committee to the NRA for the recommendation of several members with match experience to be officials for the games. These games are nearly identical to the 'big' Olympics in every way except that only the countries of the Caribbean and Central America are eligible to compete. The games occur every four years. The previous one was held in

Colombia. At that meeting it was decided that for subsequent games Americans who were experts in the various sports would be summoned to assist in the operation of the games and to act as impartial judges. So far as we were concerned it was a grand idea. It gave each of us the opportunity for a trip to a land of fantastic beauty and colorful sights that we otherwise would not have had. The 'us' in this case consisted of Brigadier General 'Sid' Hinds, Colonel Paul Roberts, NRA fieldman Lee Echols, and myself.

'Senor Nueve y Diez' places a 50-meter target in its frame under the eye of Arturo Arrivillaga of the Club Caza Tiro y Pesca de Guatemala

Guatemalan Boy Scouts acted as scorers for the 300 meter match. The shooters on the line are Nicaraguans and Cubans firing in team event

Cuban gunsmith Jose Barbeito was armorer for games. Shooter in dark shirt is Chavez of Mexico, who is a frequent competitor in Southwest events. Man smoking three cigarettes (!) is Parraga of El Salvador

By ship, plane, and train we converged on Guatemala City, high in the mountains of the little country. Here we received a healthy dose of real hospitality. While the leftist policies of the present government are open to considerable criticism, both the Americans on duty there and the native Guatemaltecos went completely overboard in giving us 'the keys to the city'. Lee Echols, a south-of-the-border traveler from 'way back, stoutly maintained that he had never been treated so well in any Latin American country.

Our initial duty was that of a rules committee. This proved to be quite interesting, as the shooting was a combination of NRA-type matches and the International variety. Here we leaned heavily on the more-or-less fluent Spanish of brother Echols. In fact, Lee became completely indispensable in social as well as official affairs. The Guatemalans were fortunate to have the services of Lieutenant Colonel George Woods, late of the United States Military Mission, who resigned his army commission recently to become technical advisor to the Olympic Committee on shooting matters. George gave us valuable aid in many ways and is one of the men responsible for the growing interest in shooting in the area. With George and other committee members, we completed a rough draft of the rules for presentation to the delegates of the various countries for 'ratification'. All of the competing nations spoke Spanish except Jamaica. The latter, of course, employs the King's English. Jamaican delegate Bernard Cridland spoke up rather pointedly once during the negotiations. "We don't wish to be complaining," said he, "but it does seem a bit unfair for you chaps to converse for half-an-hour in your language and then turn to us with a one sentence translation of what has been decided!" The rules were ratified, however, without bloodshed.

Next, we made a detailed inspection of the range facilities. All agreed we had never seen a more complete or better constructed range layout. No expense had been spared in the building of the national range. Located in the foothills not far from the center of the city, the range provided a fine 300-meter line, a 50-meter pistol section with electrically controlled targets, a 100-meter smallbore section, and a rapid-fire silhouette setup. All of these but the last had covered firing points, tiered spectator areas, and were separated by high concrete walls both for safety and for wind protection. Although wind conditions were consistently rough, the range faced north with the mountains for a backdrop, and the light was perfect. To the rear of the firing lines was a spacious clubhouse complete with medical rooms, statistical offices, bar and restaurant.

For our range detail we had a group of Indians, a platoon of soldiers, and a smattering of very alert young Guatemalan Boy Scouts. Due to language and temperament considerations, we decided to take all targets into the statistical office

for scoring. This meant that our target boys had to be on the jump continually and would have to be well schooled in their business. The answer was to assign two targets to each boy by number, those numbers being permanently assigned for the entire competition. The Indians became known by their numbers and got a big kick out of being addressed as "Senor Uno y Dos" or "Senor Nueve y Diez." Only a few of them wore shoes and those that went barefoot didn't seem to notice a thing when they walked on the tacks with which we applied the smallbore targets to the boards. To Colonel Roberts fell the somewhat difficult task of schooling the pit detail in the unfamiliar method of marking and scoring the 300-meter targets. His Indians did remarkably well with a minimum of instruction.

Standard equipment for one handgun shooter was religious medallion, photographs, cartridges and block, crackers and cheese, timer, telescope and stand—and a free pistol!

In the few days remaining before the matches began, we scheduled practice firing to familiarize all personnel with the intended procedure. As the competitors appeared at the ranges it was apparent that their equipment was more like that in our shooting circles than in international competition. The most popular smallbore rifles were the Winchester 52 and the Remington 37, some with the added prong-type butt-plate. There were practically no set-trigger free rifles, as in most shooting in the Central American area the NRA rules prevail. In the free-pistol event, however, we noted quite a few Haemmerli, Anshutz, and Tell pistols, along with a number of Hi-Standard and Colt automatics. In the NRA-type pistol matches the choice was universally the American automatic, plus a couple of Walthers. The rapid-fire silhouette shooting found Walther Olympias chambered for shots, and at least one new Hi-Standard Olympic. A number of competitors used the regular Woodsman and Hi-Standard guns, while others had conversions on the regular models for the use of shorts. In connection with weapons, the Olympic Committee had secured the services of Jose Barbeito, Cuban gunsmith well known to Americans who frequent the 'Grapefruit Circuit' matches in Florida. Barbeito was the official armorer of the matches and most of the contestants had guns on which he had worked at some time.

The 300-meter service rifle match rules permitted the use of the rifle of the military service of *any* competing country. That made it possible for any nation to procure the rifle which it considered best even though not the rifle standard in its own army. Thus, as the military rifle of the Cuban army is at present the 1903 Springfield, any other country could procure and use that rifle in the match. The Guatemalans were the only ones who took advantage of this rule. The Mexican team was equipped with a very fine Mauser-type rifle manufactured in Mexico, which sports a receiver sight not unlike the sight on the Springfield A3. This sight, along with a hooded front sight, caused some eyebrow lifting among the other teams, until General Hinds announced our decision that the rifle was definitely of the service type and perfectly legal. The Nicaraguan team was handicapped by the use of an old-type Mauser having no windage adjustment. For such a match on the difficult 300-meter international target only the best of equipment should be considered.

During the practice sessions the competitors put the pressure on each other and themselves by posting exceptionally good targets on the bulletin boards, signed by one and all. Knowing something of the Latin temperament, we knew that such actions wouldn't help the match scores a bit. It was amusing to see it work out exactly that way.

The first matches gave evidence that while most of the shooters had very high ability, their lack of match experience, plus the temperament mentioned, caused the scores to take a minor tumble. In a tricky fish-tailing wind, Pedro Aviles Franco of Mexico won the free-pistol match with 516. His shooting iron was the Haemmerli single-shot set-trigger .22. While his score doesn't compare too favorably with those fired in international competition, as Walter Walsh has often remarked to me, "It was good enough to beat anybody that showed up *that* day!" One thing that impressed us all was that the shooters exhibited somewhat more versatility than do our specialized people. For instance, Dr. Benito Machado of Jamaica won the .22 National Match Course (called "El Combinado Panamericano" in Latin America), and the smallbore free-rifle match, and placed very well in the Olympic rapid fire and in the first ten in the skeet match. This sort of versatility was shown by most of the entrants, although not with as much success. The impressive thing was that so many of the shooters at least *entered* all of the shooting events . . . something almost unheard of in the United States today.

Guatemalans have a fine national range. This is the covered firing line used for the free pistol match

Match winners were:

Free pistol: Pedro Aviles Franco, Mexico		516
.22 timed fire (60 shots): Carlos Gerling Castillo, Mexico		561
.22 rapid fire (60 shots): Thomas Vilanova, El Salvador		561
.22 NMC: Benito Machado, Jamaica		279
Smallbore free rifle (60 shots): Benito Machado, Jamaica		593-27X
Olympic silhouette: Guerrero, Mexico—60 hits		555
Service rifle, 300 meters: Jose Nosari Espinosa, Mexico,		
prone	354	
kneeling	317	
standing	287	
total		958
Skeet: Charlie Pennock, Puerto Rico		100 straight

The service-rifle team match at 300 meters was marked by spirited competition between Mexico, Guatemala, and Cuba. They finished in that order, Mexico leading with 4643 for their five-man team.

Spanish-speaking Echols was installed in the statistical office in anticipation of protests. His plea for a $25 protest fee went unheeded, but there were almost none to bother him. With my limited knowledge of the language I found myself in the job of range officer. I was lucky to have Arturo Arrivillaga of the Guatemalan shooting club on hand to keep me out of serious trouble. General Hinds lent his presence and rank to the scene, skipping about helping both in the office and on the range. The smoothness of the match and the ease of range operation were materially aided by local club members such as Antonio Yglesias and 'Chepi' Guirola. The former is probably the best smallbore shot in Guatemala and is also an excellent pistol shot.

These matches seemed to us to be forerunners of healthy competition between these countries and a possible source of good international shooting for us in the United States. We made every attempt to help the organizing of a shooting federation among them and the future is very promising. The present plan, evolved during the matches, is for participation in postal tournaments during off years and shoulder-to-shoulder matches in one of the countries every other year. This increased match activity should do much to raise the scores and to temper the competition of the future both Inter-American and International. ● ● ●

Memories of Walnut Hill

Continued from page 41

limb on a level with the bull on my target. I put the cross-hairs of the 16-power telescope on my Springfield on this limb and moved along it with each shot to a point about 15 or 18 feet out from my target where a broken branch hung down. With that shot, I got on the target. I kept holding on that broken branch and getting on the target, so I went for record. Captain Gerrish asked me, "Where are you holding, Ad?"

"Right on the bull," I told him, and went on shooting.

"Like hell you are!" he said. I was high man that day and took the match. Some of the men never even got on the paper once.

I knew Milton Farrow, the famous rifleman and the man who made the Farrow rifle. He also wrote a book about himself that he called *How I Became a Crack Shot*. I visited his shop once in Washington, D. C. He was an excellent workman and the single-shot rifle he made was a good one. It was an improvement of the old Bullard rifle and had sixteen lands and grooves. Not many collectors or shooters have ever seen one as they are pretty rare. I saw him one time at Milwaukee demonstrating for the Marlin Rifle Company. He was shooting the .45-70 Marlin lever-action repeater at 800 or 1000 yards and he could sure punch 'em in. Farrow shot at Walnut Hill, Union Hill, and at all the big Schuetzen matches. He was one of the great offhand shots of his day.

Of all the men I knew during the twenty-one years I was a shooter and a director at Walnut Hall range, there was none to equal Dr. Franklin Mann. He was the most remarkable of them all. He cared very little for target shooting as he was a scientist and a ballistician. He wanted to find out why every bullet wouldn't go into the same hole, but it was a problem in physics with him, not one of shooting or marksmanship.

Dr. Mann was always a generous person. He gave a Pope machine rest to the Massachusetts Rifle Association and had it installed at Walnut Hill on a concrete base. It was a fine instrument and was there for any of the members to use but not many of them appreciated it.

We were experimenting with high-velocity cartridges quite a bit just about the time of World War I and with a cartridge made from the Krag case necked down to .25 caliber I was getting close to 3400 feet per second velocity. That was fast in those days and everybody thought I'd get my head blown off. Because of the work that Dr. Mann and I were doing on wildcat cartridges, we had to stand for a lot of kidding. Once someone took a piece of cornet tubing and made up a fake cartridge case with one end necked down to .22 caliber. Into this, they soldered a .22 base-band bullet. It made some cartridge, a long freak of a thing that made everybody laugh. They hung it up in 'Crank's Corner' as if it was one of our cartridges. It hung there until a sailor from the battleship Chicago carried it away as a souvenir.

If you were a real nut on guns and ballistics and were shooting at Walnut Hill you automatically became a member of 'Crank's Corner'. Everything new was hashed over there—theories, ideas for new cartridges, figures on ballistics, new rifles, high velocity, well about anything wild that had to do with shooting at Walnut Hill came out of 'Crank's Corner'. It was almost a club in itself. Dr. Mann, Dr. Baker, Harry Pope, Mr. Lynch, myself, and a number of others were members in good standing. They told me I was president. It was a custom at Walnut Hill that whenever a man got a new idea about a gun they would send him to me. "Go tell Niedner about it," they'd say. "If it interests him, he'll make it up to see how it works and it won't cost you a cent!"

I moved away from Malden in 1921 or '22 and set up my shop here in Dowagiac. That was the end of my shooting days at Walnut Hill.

I'm still a member of the Massachusetts Rifle Association, however. They made me an honorary member. Several times I've been invited back to visit the old range but it's a long trip to make from here by train even though I would like to see the range just one more time. I have some mighty good memories of those days and there'll always be a warm spot in my heart for old Walnut Hill and the men who shot there. ● ● ●

THE SPOTTING SCOPE -- May 1950

Approval of the Camp Roberts, California, range as the site of 1950 National Big-Bore Matches on September 20 and 25 has been received from Sixth Army Headquarters. Shooters owe Lt. Gen. Albert C. Wedemeyer, commanding, a word of gratitude for his personal interest in providing a location for the first national .30-caliber competition in ten years.

National Rifle Association senior registered tournaments for 1950 will top the seven-hundred mark. In 1949, which was a record year, 34,776 competitors took part in 587 tournaments. Other records already broken this year: The National Junior Shoulder-to-Shoulder Rifle Championships fired at 48 locations, with 2,757 individuals and 510 teams . . . and the intercollegiates, with 14 locations, 500 individuals and over 90 teams. . . . The men of Seattle, Washington, must certainly be proud of their women. In the person of Mrs. Alice Bull they have the first woman director in the history of the NRA and in Marlene Belinger they have the first girl ever to win the national junior shoulder-to-shoulder championship. Marlene, in winning, fired a new record score, too. . . . We learn, through the British "Rifleman", of the death of Charles Edward Greener, chairman of the Board and Managing Director of W. W. Greener, Ltd., of Birmingham. Greener, 84, was the grandson of the founder of the famous old firm which was established in 1829.

The hunting accident problem came in for a great deal of attention at Haven Hill, Michigan, on March 30 and 31. The Wolverine State Conservation Department was host to the first annual Hunter Accident Clinic. Delegates from Illinois, New York, Pennsylvania, Indiana, Wisconsin, Minnesota, Ohio, Michigan and Ontario were present. John Rose, the NRA's conservation man, was invited to attend and submit his plan for uniform hunting accident reporting so that it might be considered for adoption by the states involved. The general plan was given favorable reception and with a few modifications will be pushed on an international basis with full U.S. coverage later this summer. The NRA has maintained for years that inconsistencies in the method of reporting hunting accidents between states have been responsible for the bad publicity, ineffective "safety campaigns" and general misinformation connected with the outdoor sport. . . . Copy for the first issue of the revived "Tournament News", which will make its bow in June, now is being compiled by its new editor, Russell Warye. Russ asks that all tournament sponsors get the reports of their shoots in early. Deadline for the initial issue is June 1. . . . A staffman from the National Rifle Association was engaged by the state of Virginia to give instruction at a recent school conducted for game wardens. The wardens in turn will give instruction to the hunters in their localities.

Warner Brothers, producer of the new movie "Colt 45" which will be released throughout the country later this month, has asked for the cooperation of NRA local clubs in the promotion of the picture. Under present plans several clubs from coast to coast will be asked to stage a pistol tournament while the picture is playing in town. Warner Brothers publicity people will work with the local club and theatre on the exploitation of both shooting and the picture. The club will also be asked to put an exhibit in the theatre lobby. A national prize schedule in which the Colt Company will give away several handguns is now being worked out. . . . More about the movies: Universal-International Pictures is now filming "Winchester 73" starring James Stewart, Dan Duryea, Stephen McNally and Shelley Winters. If present plans go through, the picture will be premiered on the west coast during the NRA convention in San Francisco. Another story on Winchester 73 is carried on page 14 of this issue. . . . As part of the Social Studies program of the Humbolt County Schools in California such men as Captain Leslie E. Lahr and Warden Carl Exner of the State Game and Fish Commission are giving courses in gun safety. Full details of the program may be gotten from Warden Grey, at Eureka, California. . . . The handicapped youngsters at the Newington Home and Hospital for crippled children at Newington, Connecticut, will soon have the opportunity to enjoy the shooting sport through the efforts of Berger E. Foss. He is organizing a junior rifle club for them and enthusiasm never ran higher.

The 3rd Annual National Rifle Association Convention will be the best yet. You cannot afford not to be in San Francisco between October 2 and 6.

Paul Cardinal

USMA 1950 Collegiate Rifle Champs; Seattle Girl Takes Junior Crown

The 1950 National Intercollegiate Rifle Championships fired in fourteen shoulder-to-shoulder sectionals on April 1 was full of surprises as western shooters dominated three of the first five places in the individual race and the University of Maryland failed to keep the team crown after firing a near record score of 1417 points out of a possible 1500. Herbert B. Voelcker, of the Mass. Institute of Technology, took the national individual crown and the West Point Cadets were returned the team champions.

To win his title, Voelcker, who is on the dean's list at school and is also a stroke of the varsity crew, had to fire a new record score of 293 points out of a possible 300. He compiled the record smasher with 100 prone, 98 kneeling and 95 standing. He was followed by Dwain A. Colby, University of Washington, with 291 (99-99-93), George C. Earley, University of Wyoming, 290 (99-96-95), Richard Balinger, George Washington University, 290 (100-96-94) and Henry Woltman, University of Minnesota 290 (100-97-93). All five of them topped the old national intercollegiate record of 290 with a 92 standing set in 1949 by Woodward Eicke, Jr., George Washington University. Eicke defended this year but finished far down among the also rans with 284.

In the team race both Maryland and West Point fired 1417 for the five-man team total. West Point took the title, however, by shooting 449 in the standing position to Maryland's 443. In the prone position it was West Point 497, Maryland 496. Kneeling, Maryland was tops 478 to 471. The national record for the full course is 1419 set by Maryland in 1949.

Behind West Point and Maryland came the University of Wyoming, with 1415, the U.S. Naval Academy, with 1411, and the U.S. Coast Guard Academy with 1410. Altogether, eight teams topped the 1400 mark which is phenomenal when you consider that as late as 1942 a score of 1396 was good enough to win. From 1928, when the championships were first fired, through 1947 only two teams ever topped 1400. The University of Iowa did in 1940, with 1403 and Maryland brought it back up in the stratosphere in 1947 with 1408. In the last three years, 16 teams have reached the charmed circle.

INDIVIDUAL CHAMPIONSHIPS

	Prone	Kneeling	Standing	Total
1. Herbert B. Voelcker Mass. Inst. of Tech.	100	98	95	293
2. Dwain A. Colby University of Washington	99	99	93	291
3. George C. Earley University of Wyoming	99	96	95	290
4. Richard Balinger George Washington University	100	96	94	290
5. Henry Woltman University of Minnesota	100	97	93	290
6. Raymond E. Engle U. S. Naval Academy	100	99	90	289
7. William De Graf U. S. Naval Academy	98	97	93	288
8. Thomas A. Breen University of Vermont	98	97	93	288
9. Jay J. Smith University of Wyoming	100	92	95	287
10. Henry D. Crass Georgetown University	100	95	92	287

TEAM CHAMPIONSHIPS

1. U. S. Military Academy	497	471	449	1417
2. University of Maryland	496	478	443	1417
3. University of Wyoming	496	475	454	1415
4. U. S. Naval Academy	495	481	435	1411
5. U.S. Coast Guard Academy	487	472	451	1410
6. George Washington U.	491	478	441	1410
7. Mass. Inst. of Tech.	496	476	436	1408
8. Georgetown University	492	477	433	1402

On March 11th, 1950 nearly 3,000 NRA Junior Members assembled in 48 different cities throughout the nation, Hawaii and the Canal Zone to fire for the 1950 National Shoulder-to-Shoulder Rifle Team and Individual Championships.

When the smoke cleared away from firing lines it was found that the Detroit Edison Junior Rifle Club of Detroit, Michigan was

Marlene Bellinger, the 1950 Junior Rifle Champion

the new Junior Rifle Team Champion. The squad fired a total score of 745—just three points below the National Record established by Napa High School in 1948.

The National Individual Junior Rifle Championship was won by Miss Marlene Bellinger of Seattle, Washington. Marlene fired a brilliant score of 194 to establish a new National Record. The score was made up by her 98 in the Prone position and 96 Standing.

The top teams and individual medal winners are listed below:

NATIONAL OPEN TEAM CHAMPIONSHIP

1—Detroit Edison Jr. Rifle Club, Detroit, Michigan 745

NON-MILITARY SCHOLASTIC

1—Akron Garfield High School Jr. R. C. #1, Akron, Ohio 737
2—Jamaica High School, Jamaica, N. Y. 722
3—Valley Stream Central High School, Valley Stream, New York 721
4—Lincoln High School, Tacoma, Washington 718
5—Hempstead High School, Hempstead, N. Y. 718

MILITARY SCHOLASTIC

1—South High School R.O.T.C. #1, Denver, Colo. 735
2—Loyola Junior Rifle Club, Los Angeles, Calif. 732
3—Davenport High School Jr. Rifle Club, Davenport, Iowa 731
4—Xavier High School, New York, N. Y. 730
5—Leavenworth High School Jr. R.O.T.C., Leavenworth, Kansas 729

NON-SCHOLASTIC

1—Detroit Edison Jr. Rifle Cl., Detroit, Michigan 745
2—Napa Junior Rifle Club, Napa, Calif. 739
3—Arlington Rim Fire Jr. R. C., Va. 737
4—Glen Post VFW 3075 Jr. Rifle Club, Seattle, Washington 735
5—Portland Jr. Rifle Club, Oregon 728

GIRLS

1—Trojan Junior Rifle Club, Portsmouth, Ohio 690
2—Detroit Edison Jr. Rifle Club, Mich. 675
3—Wellsville Jr. Rifle Club, Wellsville, N. Y. 677
4—Napa Junior Club Girls Rifle Team, Napa, California 669
5—Centennial H. S. Girls Team, Pueblo, Colo. 669

NATIONAL OPEN INDIVIDUAL

1—Marlene Bellinger, Seattle, Wash. 194
2—John Budicin, Los Angeles, Calif. 193
3—Earl Taylor, Waynesburg, Pa. 193
4—Virgil Pittman, Akron, Ohio 193
5—Robert Lindsay, Bend, Oregon 192
6—John Gilbert, College Park, Maryland 192
7—James Ulan, Milwaukee, Wisconsin 192
8—John Cox, Kittanning, Pennsylvania 190
9—Gene Humphery, Mt. Carmel, Connecticut 190
10—Richard Johnson, Arlington, Virginia 190

GIRLS INDIVIDUAL

1—Marlene Bellinger, Seattle, Washington 194
2—Theresa La Londe, Detroit, Michigan 190
3—Imogene Bartlett, Opportunity, Washington 187
4—Ruth Cochran, Tacoma, Washington 186
5—Janet Vertrees, Avondale, Colorado 183

NRA TOURNAMENT NEWS

As announced last month the competitive shooters paper TOURNAMENT NEWS will be brought back with the June issue. It has been decided to continue the old name—so TOURNAMENT NEWS it is again.

All clubs have been written on the necessity of appointing or electing a club publicity officer to assure the tournament of league stories being sent for publication. Although lots of scores will be published we also want to have copy about what goes on at the tournaments and leagues.

Who the new champ is and how he got up there in the rarefied air. Just printing bulletins is not enough and it takes someone "on the ground" to furnish an interesting story. Get behind your club to see that a publicity officer is appointed or elected.

As a special service for our members, primarily to help them in disposing of excess personal shooting equipment and accessories, at a minimum of expense, the "NRA TOURNAMENT NEWS" will carry classified ads at a flat, uniform cost of $3.00 per ad, for a maximum of 25 words, including name and address. Any number of ads can be run by one person in the same issue but no single ad may exceed 25 words, (including name and address) and the cost will be $3.00 for each ad. Complete *advance* payment must be made to insure insertion. Display advertisements will *not* be accepted.

Remittances should be made payable to "NRA TOURNAMENT NEWS" and sent, with advertising copy, plainly addressed to "TOURNAMENT NEWS", National Rifle Association, 1600 Rhode Island Avenue, Washington 6, D. C. Final closing date will be May tenth for all ads which are to appear in the June issue of the "TOURNAMENT NEWS".

NATIONAL MATCHES

The plans for national smallbore and pistol championship tournaments are rapidly developing along the lines shown in the March RIFLEMAN.

Bulletins from the recent Florida and California Matches where outdoor tournaments got underway in February and March point to 1950 as the biggest competitive shooting season in history. National Match pro-

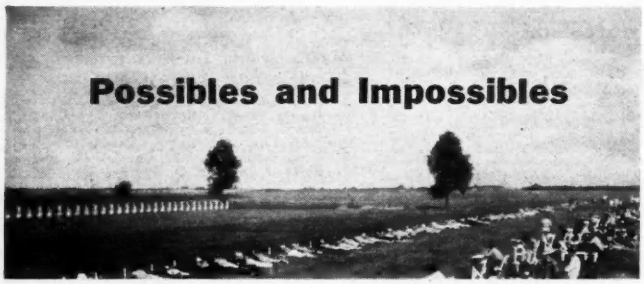
(Continued on page 50)

A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 13, NO. 5

BRIDGEPORT, CT., MA



A short time ago we received a report on the third annual "Desert Cavalcade Pistol Matches," held by the Calexico Gun Club of Calexico, California. As usual, the competition was plenty keen—and the scores we saw indicated that shooters had to bear down to win.

Incidentally, the boys at Calexico are really proud of their range, and they have a right to be. The range is equipped with 60 air-operated targets. Built by the Club members, the adobe construction is a picturesque addition to the beautiful countryside.

* * *

What do you want to know about rifle shooting? This attention-getting question forms the first line of text just inside the front cover of our National Rifle Association's new handbook, "How to Shoot a Rifle."

Both the student and the master will benefit by reading this carefully prepared and profusely illustrated handbook. For the student, it's a textbook. For the master, it serves as an excellent "memory-refresher."

You'll find everything in the N.R.A.'s new handbook from "breathing and pulse" to an explanation of the parts and operation of a rifle. "How to Shoot a Rifle" is recommended reading for a clearer insight into the enjoyment of the sport—and the art—of shooting.

* * *

Down in Tennessee they have a Junior rifle club that's been going great guns — taking top honors in local and Sectional Junior matches. That, in itself, is commendable enough, but more amazing to us was the fact that their club is only six months old! It makes us wonder if the first syllable in "Tennessee" doesn't stand for "10 X."

* * *

Remember When . . . Did you know that the National Rifle Association once had an official uniform for its members? If he were so inclined, a member could adorn himself in the height of official shooting fashion — consisting of coat, breeches, spiral puttees, canvas leggings, olive drab shirt, hat, and web belt. All this for the princely price of $21.00—for this was back, way back around 1920. And golfers aren't the only ones who chuckle when they reflect on their early get-up. Do you remember when the well-dressed rifleman arrived on the range attired in plus-fours?

* * *

In response to a recent article in this column about hard surface firing points, a west coast shooter writes: "We have a range we think second to none . . . as level as a lake with firing point raised 12 inches above the level."

He goes on to explain that there have been no complaints by shooters who use the 560 foot long firing point, one-half of which is concrete and the other half black top. Their firing point is covered by corrugated aluminum supported on steel frames.

With this first-rate installation shooters get plenty of practice. And, as he explains, "you can't lose X's here and win."

RIFLE AND PIS
DOWN FOR GI

HUNTER'S CORNER

PENNSYLVANIA HUNTER DROPS BEAR THE HARD WAY

Bear hunting always makes for a good story but Boyd

Charles Shaal, hunting partner of Boyd Caldwell, "weighs in" Mr. Caldwell's 250-pounder.

Caldwell of East Free Pennsylvania, really ha strange one to tell. Belie or not, he shoots them th trees!

Mr. Caldwell was hunti Clinton County near K when he spotted this 2 black bear. He threw his ington Model 722 rifle t shoulder and The bullet, o way to the t plowed thr two oak tree then nailed bear. The b estimated th ameter of the trees at 2 3½" respectively.

The Bullet

The bullet, 300 Savage grain, Soft Point Remi "Core-Lokt," was rec from the bear. As yo see from the picture it roomed perfectly and, in of the punishment, stay gether.

IN THE HILL COUNTRY . . . . . "THE TRADE

emington News

WEATHER:
"SPRING-FED" SHOOTERS OVERFLOW RANGES

PORT, [illegible], MAY, 1950 — First Class Reading Matter for Rifle and Pistol Shooters

PIOL SHOOTERS KNUCKLE R GIONAL OPENERS THIS MONTH

erful new 222 Remington Varmint Cartridges with muzzle velocity of 3200 r second. B. Popular Model 722 rifle now chambered for 222 Remington ge. C. Model 722 has extra strong action. Heat treated receiver. Low bolt handle for low mounted scopes.

GUNNERS POINT TO SAN FRANCISCO NATIONAL MEETS IN SEPTEMBER

Bridgeport, Connecticut, May, 1950. Regional pistol contenders start punching targets in Calexico, California, the 5th of this month. And the Small Bore boys start getting their licks in at Phoenix the 13th and 14th. From then on to September 4th, when Mid-Atlantic small bore contenders shoot the last Regional match, it's anybody's guess.

They're all pointing toward that trip to the Golden Gate city the last week of September. San Francisco is hosting not only pistol and small bore championship matches, but the NRA Convention and, if plans work out, the Big Bore Championship.

It's a grand town to hold them in. Natives tell us San Francisco Septembers are beautiful. The only contradiction we've had to that comes from a few enthusiastic Los Angeles supporters.

Plans now call for holding the National Pistol Matches on the modern San Francisco police layout. The Small Bore Championship will be held on the 125-point range under construction in Sharpe Park. Bigbore fans are negotiating for nearby Camp Roberts. From the way it looks here, San Francisco is going to see more pistol packin', rifle totin', folks in September than they've seen in a blue moon.

Equipment is Important

That, in brief, is the story on Regionals and Nationals. But how about Mr. Average Shooter, the fellow who's a long shot for club champion? To him we say "sure it takes practice." But it takes the right equipment, too. And there just isn't a sweeter target rifle made than the famous Remington Model 37.

It's built like a fine watch, as accurate as men can make it. So next time you tuck some walnut next to your cheek ask yourself, "Does this rifle give me everything a rifle can?" If it's a Model 37 the answer is "yes."

If not, its time for a chat with your Remington dealer.

OOTERS, EXPERTS PRAISE 722-222

idgeport, Connecticut, 1950. Like the old "proof e pudding" adage, the est of the cartridge with the er. That's it's so ying to ve the ing re-

we've had about the new gton 222 cartridge.

t reports from shooters the all around perform- of the new 222 Reming- rmint cartridge and the 722 rifle chambered for rtridge indicate that the editors "knew whereof spoke."

oters' comments backed tements of the experts s: "A new and worth- cartridge—and rifle for . . . greatest appeal of ew varmint cartridge is can be had in the really nt 722 rifle," ". . . the definitely *here* . . . and it like one that will be ac- useful, and popular."

BUSTIBLE BULLSEYES ADD VARIETY TO PISTOL AND RIFLE SHOOTING

Have you heard about Bustible Bullseyes, the clever new interest-builder for pistol and rifle clubs? They're flat plastic discs (1½" in diameter, 3/16" thick) that can be hung easily, in any safe place. They shatter like a clay pigeon when hit. Spectators like them because they can see exactly how well the shooter is doing.

NRA Bustible Bullseye

Many different ways to use them have been suggested. "Dueling," for example. In this new game 5 Bustible Bullseyes are hung on each of two targets. Two shooters are chosen who load 5 cartridges each. On signal they commence firing. The one who breaks the most in a given time is winner of the duel.

He then meets the next contender, until all but one are eliminated.

The Bustible Bullseyes come with a hole in one rim, for attaching to tree limbs with a string. And they have a long pin attached which makes them easy to mount on cardboard.

Easy to hang

There are dozens of interesting possibilities with these new targets. Chances are you'll invent a few games of your own. If your dealer does not have a supply of Bustible Bullseyes, he can obtain them for you by writing to: National Target Company, 1255 25th Street, N. W., Washington 7, D. C., or Wisler Western Targets, 543 Clay Street, San Francisco, Cal.

Shatters on impact

"Core-Lokt" is a trade mark of Remington Arms Company, Inc.

(Continued from page 47)

grams will be available for all regional competitors. To help you make plans to take part in the climax of the national sport of rifle and pistol shooting, the following brief outline is given:

NATIONAL PISTOL CHAMPIONSHIPS

Place: Municipal Police Range, San Francisco, California
Dates: Section 1—September 23, 24, 25.
Section 2—September 27, 28, 29.
Entry Cards: Will be furnished each Regional Competitor
Entry Closing Date: In NRA Washington Office by September 4.
Entry Registration Fees: $17.00 per section.
Eligibility: Every Competitor in a Regional Championship aggregate is privileged to make entry. In case more entries are made than the ranges will accommodate acceptance will be based on ranking of scores.

SECTION #1

1. National Marksman Championship
2. National Sharpshooter Championship

Entries: 140 sharpshooters, 140 marksmen

SECTION #2

National Open Pistol Championship

Entries: 126 masters
126 experts
High 10% of competitors in each class of Section 1.

Team (pistol)

Eligibility: Any NRA affiliated club, military unit or installation or law enforcement agency which was represented in team matches at any Regional Pistol Tournament.
Composition: 4 firing members, Team captain, and Team coach, may have a maximum of two firing members who were not firing members in a Regional Team match.
Entry fee: $4.00 per team, team members not competing in the Individual National Championship will pay $1.00 when team entry is made.

NATIONAL SMALLBORE RIFLE CHAMPIONSHIPS

Place: Sharpe Park, San Francisco, California
Dates: Section 1, September 27, 28.
Section 2, September 29. 30.
Entry cards: Will be furnished each Regional Competitor.
Entry closing date: In NRA Washington Office by September 4.
Entry registration fee: $12.00 per section.
Eligibility: Every competitor in a Regional Championship aggregate is privileged to make entry. In case more entries are made than the ranges will accommodate acceptance will be based on ranking scores.

SECTION #1

1. National Marksmans Championship
2. National Sharpshooters Championship

Entries: 125 marksmen
125 sharpshooters

SECTION #2

National Open Smallbore Championship

Entries: 112 masters
112 experts
High 10% of competitors in each class of section 1.

1950 SUMMER LEAGUES

It is time for the club officials to start working on the formation of Summer Leagues. A general mailing covering all the conditions along with entry blanks is being sent to all Club Secretaries and League Secretaries.

League firing offers all shooters competition among members of their own club and other clubs in their locality. At the same time shooters are firing scores that count toward National Classification. This is very important, since shooters are able to be classified and pick up tournament "know how" before entering into open registered tournament competition.

Summer Leagues may be formed within a single club or may be made up of teams from several clubs. A minimum of three teams each having at least four firing members are required. There are very few affiliated clubs that cannot meet minimum requirements.

The leagues may elect their own officers, make up their own league conditions and select their own course of fire. All firing is governed by NRA Rules.

At the end of the league season the NRA presents awards to the winning team in each league. The winning teams in each league fire scores to count for their own State Championship and for the National Championship Trophies. Medals are awarded to the high ranking teams in the State and National Championships. The National Rifle League Championship Trophy is a Smallbore Rifle and the Pistol Championship Trophy is a .22 caliber pistol.

Check with your club officials now—make sure you have a league within your own club or teams in your local league .

NEW DCM PRICES

The following new prices have been announced by the Ordnance Department for sales through the DCM to NRA members:
Primers, caliber .30 and caliber .45, $3.50 per 1,000.
Bullets, caliber .45 $25.00 per 1,000.
Cases, cartridge, caliber .30 M1, primed, $30.00 per 1,000.
Cartridges, caliber .22 Long Rifle, $71.70 per case of 10,000 rounds.
Cartridges, ball, Caliber .30 M2, $77.00 per 1,000, plus tax.
Cartridges, ball, revolver caliber .38 Special, $40.00 per 1,000.
To these prices must be added packing and handling charges and transportation charges. The 11% excise tax is also applied to caliber .30 cartridges.

RIFLE SALES REPORT

The announcement in THE AMERICAN RIFLEMAN March 1 of the re-opening of sales of Springfield Model 1903 unserviceable rifles brought a considerable flow of orders for these rifles from NRA members. At the time this edition went to press approximately 7,500 orders have been forwarded by the DCM to Ordnance Arsenals. Sales will continue and there is no reason to believe that purchasers will have to wait for long periods before receiving their rifles.

RICHARD AND DOOLEY DIE

Virgil Richard died at his Pittsburgh, Pennsylvania, home on March 29 after a long illness. Older smallbore shooters will remember him as the 'boy wonder' of Camp Perry, Sea Girt, and other tournaments in the east during the 1920's. He placed on the International Dewar Teams each year from 1921 to 1927, being high scorer on the team in '21 and '26. Besides winning many other matches, he also placed second in the smallbore grand aggregate at Camp Perry in 1925.

In 1930 Richard became a member of the sales staff of Remington Arms Company, Inc., and until his death was district sales manager at Pittsburgh.

Virgil Richard is survived by his widow, two sons, and his father, Capt. W. H. Richard, more familiarly known by shooters as 'Cap' Richard, who with Jack Hession, Frank Kahrs, Lew Weldin, and others worked earnestly during the 20s and 30s in organizing matches and building the Eastern Smallbore Shooters Association.

"Jack" Dooley, one of the colorful figures of a past generation of riflemen, died on March 30 at his home in Larchmont, New York. He was 80 years old, a widower, and childless.

Born in Portland, Maine, he started his shooting career in the National Guard of that state. Commissioned in the Marine Corps Reserves during World War I he served as a machine gun instructor. He served as an Assistant Executive Officer and Chief Range Officer at many of the national matches during the decade immediately following the war. During the same period he was a representative of the United States Cartridge Company which developed the first .22-long rifle cartridge especially designed for the then new outdoor smallbore game

JUNIOR POSTAL MATCH FINALS

A total of six hundred and eighty-six junior club teams rounded out the fourth and final match in the 1949-50 National Junior Postal Matches. As in previous years it was a "fight to the finish" with the winning teams running neck-to-neck until the last shot was fired. The following is a run-down of the top teams in each class.

DIVISION A

Open Junior Team Match

Course of Fire: 10 rounds Prone and 10 rounds Standing.

1—Charlotte Hall School, Charlotte Hall, Maryland
2—St. Francis Xavier High School, New York, New York
3—Glen Post VFW 3075 Junior Rifle Club Seattle, Washington
4—Grover Cleveland High School Junior Rifle Club, St. Louis, Mo.
5—Funkhouser Post #8 Junior Rifle Club, Evansville, Indiana

DIVISION B

Inter-Scholastic Team Match

Course of Fire: 10 rounds Prone.

Open Class Winner

1—Oakmont High School, Oakmont, Pa.

Non-Military School Class

1—Oakmont High School J. R. C., Oakmont, Pennsylvania
2—Munhall High School J. R. C., Munhall, Pennsylvania
3—Upper Darby High School S. R. C., Upper Darby, Pennsylvania
4—Coraopolis High School J. R. C., Coraopolis, Pennsylvania
5—New Albany High School J. R. C., New Albany, Indiana

Military School Class

1—St. Francis Xavier H. S. Jr. Rifle Club, New York, New York
2—Loyola Junior Rifle Club, Los Angeles, Calif.
3—Christian Brothers Academy, Albany, New York
4—Cadet Junior Rifle Club, Hays, Kansas
5—Cretin High School Jr. R. C., St. Paul, Minn.

DIVISION C

Non-Scholastic Team Match

1—Glenridge Jr. Rifle Club, Glen Ridge, N. J.
2—Brooklyn Jr. Rifle Club, Brooklyn, New York
3—Detroit Edison Jr. Rifle Club, Detroit, Mich.
4—Glen Post VFW 3075 Jr. Rifle Club, Seattle, Washington
5—Arlington Rim-Fire Junior Rifle Club, Arlington, Virginia

DIVISION D

Cub Team Match

Course of Fire: 10 rounds Prone.

1—Glenridge Jr. Rifle Club, Glen Ridge, New Jersey
2—Estes Park Jr. Rifle Club, Estes Park, Colorado
3—Polo Junior Rifle Club, Polo, Illinois
4—St. Paul's School Junior Rifle Club, Concord, New Hampshire
5—St. Francis Xavier H. S. Jr. Rifle Club, New York, New York

DIVISION E

Girls Team Match

Course of Fire: 10 rounds Prone.

1—Munhall High School Jr. Rifle Club, Munhall, Pennsylvania
2—Clymer High School Jr. Rifle Club, Clymer, Pennsylvania
3—Oakmont High School Jr. Rifle Club, Oakmont, Pennsylvania
4—Centennial Girls Rifle Club, Pueblo, Colo.
5—Upper Darby Rifle Team, Philadelphia, Pa.

Report on 1950 Grapefruit Circuit

The script hasn't changed a bit. The Florida national midwinter shooting shows are events that all competitive shooters should take in. The shoots always follow the same formula but when they already offer the best of competition and surround it with such generous portions of social entertainment that written words cannot do justice to the tournament sponsors—why change it?

The 1950 schedule again started off with the St. Petersburg smallbore championships on March 7-11 followed by C. A. Brown's Tampa pistol extravaganza from March 14 to 18 and closed out at Clem Theed's Palmetto Pistol Club range on March 21-24. Here are the reports from:

St. Petersburg

Sam Bond, New Philadelphia, Ohio, won both the National Midwinter Smallbore championship and the Southeastern. It was the sixth time the stunt was pulled in the 15 year history of the tournament. Thurman Randle, of Dallas, Tex., did it in 1935, Kenneth Recker of Winter Haven, Fla., in 1937, Bill Schweitzer of Hillside, N. J., in 1940 and 1949, and Dave Carlson of New Haven, Conn., in 1940.

Bond won the national aggregate title with 3180-190x out of a possible 3200 and the Southeastern honors with 1594-117x out of a possible 1600. The Ohio rifleman and Arthur Cook of Washington, D. C., dominated the five days of shooting which attracted 150 shooters.

In addition to the two aggregates, Bond won four individual events, while Cook took the Dewar aggregate and four individual matches.

Schweitzer, although failing to retain his national and Southeastern titles, won the 200-yard aggregate with 382-14x, and the any-sight aggregate for the U. S. Service trophy went to William G. Patriguin, Cleveland, O., with 1593-100x.

Besides the national and Southeastern aggregates, Bond won the individual 200-yard any-sight Trull Memorial trophy, 50- and 100-yard Bausch and Lomb trophy, and the individual 50-meter iron sight matches.

Cook won the individual Dewar, 100-yard Randle trophy, Swiss and individual Dewar, any-sight matches in addition to the Dewar aggregate. The Olympic and national smallbore champion, former national junior title-holder and holder of 40 U. S. rifle-shooting records also was presented with the "Cup of Cuba" donated by the director of sports for Cuba.

Tampa

C. A. "Smitty" Brown need take second place to no one as a sponsor of a pistol tournament. Throughout the years he has built the National Midwinter Pistol Championships up to a March "must" for all pistol competitors. This year was no exception as he offered the finest in competition, the finest in prizes and the finest in entertainment.

The big feature of the competitive program was the first 1950 meeting of the present national pistol champion Technical Sergeant Huelet Benner and Harry Reeves, the ex-champion from Detroit, Michigan. Reeves took Benner in their initial meeting. In the all-around aggregate the Detroit policeman fired a 2595 out of a possible 2700 points to Benner's 2587. Benner did take the .22 aggregate with a 883. During the course of the firing, he shot a new record over the National Match Course. Benner put together a 98 slowfire, 100 timed-fire and 100 rapid fire for 298. Reeves finished second over the full .22 course with 877.

Chief Warrant Officer O. Pinion, USN, a rising star among the pistol shooters beat both of the big boys out of the centerfire championship with 862. Reeves also got a 862 but was outranked.

Reeves, as usual, came through in the .45 caliber championship with a 856.

The team matches were hotly contested with 46 teams firing for the big prizes. A strong Navy team won the .22 Camp Perry

Mark Rasperry (left), Captain of the Rebel Team, congratulates Herbert Wales, 75, of Retsel, Washington, Captain of the Yankee Team, on its victory in the Yankee-Rebel pistol match at Tampa. Harry Reeves is on the right. Man in background is unidentified.

Course match with a 1184. The Detroit police were second with 1180, followed by USMC #2 at 1178 and USMC #1 at 1177. The .22 national match course match was taken by USMC #1 with 1155. The Detroit police were again second with 1154, followed by Navy with 1152. The centerfire national match course match was taken by USMC #1 at 1147, with teammates #2 running second with 1133, followed by the Army team at 1131. The Detroit police finally came through in the .45 caliber national match course match with a 1130. USMC #2 was second, with 1127, followed by USMC #1 at 1126. The Cuban Army team won all team matches for foreign teams (seven were entered) and the Floridian Pistol Club of Tampa took all the civilian team matches.

Boxscore of the individual Midwinter Championship was: Harry Reeves, 2595, Huelet Benner, 2587, O. Pinion, 2556, Walter L. Devine, USMC, 2553, Al Hemming, Detroit Police, 2553. Expert winner—C. S. Campbell, Ft. Knox, Ky., 2509. Sharpshooter winner—Leon Dediot, Cuban Army, 2461. Marksman winner—Charles J. O'Malley, 2386. High unclassified—F. J. Keifer, Ft. Benning, Ga., 2421. Alice Young of Tampa, took the women's championship with a score of 1628.

The matches were ended with an unforgettable cocktail party, dance and banquet at the club house. The other big social feature was the fish fry in which over 600 pounds of fish and a truck load of hush puppies were consumed.

Miami

From Tampa the pistol shooters moved over to Clem Theed's beautiful Coral Gables club. At edition time the scores from the matches were not yet in the NRA office but according to Col. Walter Walsh's report, Harry Reeves again beat Benner in the grand aggregate 2614 to 2609. They were followed by Walter L. Devine, USMC, at 2565, Mark Billings, USMC, at 2565 and Al Hemming, Detroit police at 2562.

CORRECTION IN PISTOL RULES

In printing the 1950 Pistol Rule Book an error was made in copying rule 11-10 Squadding. This regulation would not be workable as printed in the rule book. Following is a copy of the correct rule.

11-10. Squadding—squadding shall be arranged so whenever possible, all competitors in one classification will fire in the same relay and competitors from the same organization will not be squadded together nor be permitted to score for each other.

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COMING EVENTS

Tournaments and other important events listed below include all National, Regional and State Championships that have been registered with the NRA as of January 1, 1950. The current Gallery Rifle and Pistol Registered Tournament Schedule (available on request) lists all registered gallery tournaments that were reported to NRA Headquarters by December 1, 1949. Tournaments other than championships are not listed in this column after the publication of the seasonal schedule.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write the tournament sponsor in advance for a program of any registered tournament you plan to attend. It is your assurance that you will know all the details of the tournament conditions.

OCTOBER

2-6, 1950—Third Annual NRA Convention at San Francisco, California.

NATIONAL CHAMPIONSHIPS

Sept. 27-30, 1950—Smallbore Rifle at San Francisco, California. Programs available later from N.R.A. Office.

Sept. 23-29, 1950—Pistol and Revolver at Police Department Range, San Francisco, California. Programs available later from N.R.A. Office.

SMALLBORE REGIONAL CHAMPIONSHIPS

MAY

13-14—Far Southwestern at Phoenix, Arizona. Mr. Glenn Taylor, 3110 East Manor Drive, Phoenix, Arizona (Adv.-Ltd.).

JUNE

17-18—Rocky Mountain at Cimarron, New Mexico. Mr. John O. Harrison, Cimarron Rifle and Pistol Club, Cimarron, New Mexico (Adv.-Ltd.).

24-25—Southwestern at Fort Worth, Texas. Mr. J. L. Kelly, P. O. Box 3007, Fort Worth, Texas (Adv.-Ltd.).

24-25—Midwestern at Des Moines, Iowa. Mr. Howard O. Smith, Box 1395, Des Moines, Iowa (Adv.-Ltd.).

JULY

1-2—South Pacific States at Santa Barbara, California. H. Griffiths, 927 W. Valerio Street, Santa Barbara, California (Adv.-Ltd.).

8-9—Northeastern at Middlefield, Connecticut. Mr. J. Russell Lent, Connecticut State Rifle and Revolver Association, Middlefield, Connecticut (Adv.-Ltd.).

8-9—Northwestern at Anaconda, Montana. Mr. Fred J. Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

AUGUST

5-6—Middle Atlantic States at Altoona, Pennsylvania. Mr. R. B. Barry, Altoona Rifle and Pistol Club, Altoona, Pennsylvania (Adv.-Ltd.)

5-6—North Central at Bristol, Indiana. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend 28, Indiana (Adv.-Ltd.).

12-13—Southeastern at Savannah, Georgia. Mr. Gerald L. Storey, 2013 Reynolds Street, Savannah, Georgia (Adv.-Ltd.).

19-20—North Pacific States at Wenatchee, Washington. Mr. C. L. Wood, North Central Washington Rifle and Pistol Club, Wenatchee, Washington (Adv.-Ltd.).

PISTOL REGIONAL CHAMPIONSHIPS

* Note change of dates.

MAY

5-6-7—South Pacific States at Calexico, California. Mrs. Margaret Poindexter, Calexico Gun Club, El Centro, California (Adv.-Ltd.).

June 30-July 1-2—Far Southwestern at Prescott, Arizona. C. J. Bender, 621 Glenwood Avenue, Prescott, Arizona (Adv.-Ltd.).

June 30-July 1-2—Middle Atlantic States at Quantico, Virginia. Lt. Colonel George R. Stallings, USMC, Marine Corps School, Quantico, Virginia (Adv.-Ltd.).

JULY

1-2—Rocky Mountain at Denver, Colorado. Mr. R. T. McCluskey, 1643 Broadway, Denver, Colorado (Adv.-Ltd.).

2-3-4—Southwestern at Shreveport, Louisiana. Mr. W. C. Alston, 736 College Avenue, Shreveport, Louisiana (Adv.-Ltd.).

***15-16**—Northeastern at Albany, New York. Mr. Gilbert W. Welsh, 1291 Garner Avenue, Schenectady, New York (Adv.-Ltd.).

AUGUST

5-6—Midwestern at Des Moines, Iowa. Howard O. Smith, P. O. Box 1395, Des Moines, Iowa (Adv.-Ltd.).

5-6—Northwestern at Anaconda, Montana. Fred Mesenko, 700 Oak Street, Anaconda, Montana (Adv.-Ltd.).

25-26-27—Southeastern at Jacksonville, Florida. C. A. Brown, Jacksonville Police Department, Jacksonville, Florida (Adv.-Ltd.).

26-27—North Central at Flint, Michigan. Kenneth Gilman, 1330 Begole Street, Flint, Michigan (Adv.-Ltd.).

SEPTEMBER

2-3-4—North Pacific at Raymond, Washington. Malcolm B. Edwards, P. O. Box 252, South Bend, Washington (Adv.-Ltd.).

A competitors' meeting will be held in conjunction with each regional.

STATE CHAMPIONSHIP TOURNAMENTS AND OTHER REGISTERED TOURNAMENTS

MAY

6-7 CALIFORNIA—California State Small Bore Rifle Championships at Fresno, California. D. Jackson, Jr., 1350 5th Avenue, San Francisco, California (ADV-LTD)

20-21 KENTUCKY—Kentucky State Small Bore Rifle Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky (ADV-LTD)

21 ARIZONA—Arizona State Pistol Championship at Tucson, Arizona, C. Howard Hathaway, Box 71, Tucson, Arizona.

30 IDAHO—Idaho State Fifth Annual Pistol Tournament at Boise, Idaho. Emily Davidson, Route #3, Boise, Idaho.

28-29 IDAHO—Idaho State Ninth Annual Small Bore Rifle Tournament at Boise, Idaho. Emily Davidson, Route #3, Boise, Idaho.

27-28 TENNESSEE—Tennessee State Small Bore Rifle Tournament at Knoxville, Tennessee. A. J. Nine, 104 Underwood Street, Knoxville, Tennessee.

27-28 ARKANSAS—Seventh Arkansas State Pistol Tournament at Little Rock, Arkansas. Garland P. Patten, 521 Pyramid Building, Little Rock, Arkansas (LTD)

17-28 TEXAS—Texas State Small Bore Rifle Championship at Dallas, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas.

JUNE

1-4 FLORIDA—Florida State Pistol Matches at Coral Gables, Florida. A. T. Kelley, Jr., 12 Alcantarra Avenue, Coral Gables, Florida.

2-3-4 MARYLAND—Eleventh Annual Maryland Revolver and Pistol Championships. Chief Marcus H. Miles, Sparrows Point Police Dept., Sparrows Point, Maryland (ADV)

10-11 UTAH—Utah State Small Bore Rifle Tournament at Layton, Utah. Ralph K. Walker, 161 Goltz Avenue, Salt Lake City, Utah.

10-11 KENTUCKY—Kentucky State Pistol Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky (ADV-LTD)

10-11 IOWA—Iowa State Annual Pistol Tournament at Davenport, Iowa. Gene E. Taylor, 1219 Davie Street, Davenport, Iowa (ADV-LTD)

17-18 CONNECTICUT—Connecticut State Revolver and Pistol Championship at Rocky Hill, Connecticut. George G. Ledder, P. O. Box 19, Rocky Hill, Connecticut.

18 MINNESOTA—Minnesota State Outdoor Rifle Tournament at Minneapolis, Minnesota. John A. Erickson, 3416 35th Avenue South, Minneapolis 6, Minnesota.

17-18 WASHINGTON—Washington State Small Bore Rifle Championship at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle, Washington (ADV-LTD)

17-18 MISSOURI—Missouri State Pistol Tournament at St. Louis, Missouri. Frank Stubits, 5507 Lisette Avenue, St. Louis 9, Missouri (LTD)

17-18 TEXAS—Texas State Pistol Championship at Austin, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas.

17-18 NORTH CAROLINA—North Carolina State Small Bore Rifle Championship at Conover, North Carolina. Glenn W. Sipe, Route #2, Conover, North Carolina.

17-18 MASSACHUSETTS—Massachusetts State Small Bore Rifle Championship at Shelburne Falls, Massachusetts. C. R. Van Tassel, 30 Dellwood Road, Worcester 2, Massachusetts. (ADV-LTD)

25 NEW YORK—New York State Rifle Championship at Auburn, New York. Herman Dickman, 214 South Seward Avenue, Auburn, New York (LTD)

24-25 VERMONT—Vermont State Rifle Championships at Winooski, Vermont. James W. Allen, Queen City Park, South Burlington, Vermont (ADV-LTD)

JULY

4-9 INDIANA—Indiana State Pistol Tournament at Bristol, Indiana. Mrs. Garnette R. Horner, 1115 North Huey Street, South Bend, Indiana.

16 VERMONT—Vermont State Big Bore Rifle Championship at Northfield, Vermont. P. H. Teachout, East Burke, Vermont.

15-16 UTAH—Utah State .30 Caliber Rifle Championship at Fort Douglas, Utah. Ralph K. Walker, 161 Goltz Avenue, Salt Lake City, Utah.

15-16 NORTH CAROLINA—North Carolina State Pistol Championship at Asheville, North Carolina. D. E. Ray, Care Fred M. Molt, Box 7466, Asheville, North Carolina.

STOLEN GUNS

One H&R Sportsman #8126. Neal P. McKinstry Briggsdale, Colorado.

One Colt Bisley Model Revolver, 32-20 caliber, #242420. James E. Serven, P.O. Box 1777, Santa Ana, California.

One Model 99 Savage 300 caliber rifle, #538593. Morcom B. Jones, 137 Locust St., New Bedford, Massachusetts.

One Colt Super .38 Automatic. #72666. Glenn Harman, 1118 West Hathaway Street, Yakima, Washington.

One Parker D.H.E. 20-gauge double-barrel, #233132. M. W. Banton, Summit, New Jersey.

One Match Target Woodman. #25206. D.A. Stokely, 730 Colorado Avenue, Trinidad, Colorado.

One Colt .45-caliber pistol #710947. Lt. Col. L. K. Mantell, Percy Jones General Hospital, Battlecreek, Michigan.

One Enfield 30-06. #518661 with Weaver K25 scope; one Winchester 30-30, Model 64. Jr. R. Armstrong, 620 E. Sussex, Missoula, Montana.

One Remington 12-gauge gun. Model 31. #14900. Henry Anderson, Box 26, Rantorie, Illinois.

Bisley Colt 32-20, #245188; Bisley Colt 32-20, #288794; Bisley Colt 38 special, #245708; Woodsman Colt, .22 caliber, #14463-S; Hi Standard HDM, .22 caliber, #231500; Manbu Jap, 8mm., #6174; Mauser Auto. 9mm., #22951; Smith Wesson, 455, #65478; Colt Auto. 380, #74953; Lugar Auto. 9mm., #5639; Colt D.A. 38 special #5809. Stephen G. Wasley, 1619 East Anaheim Street, Long Beach, California.

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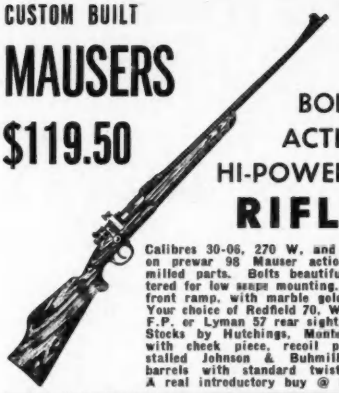

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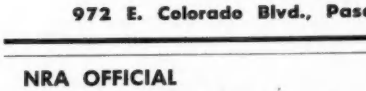

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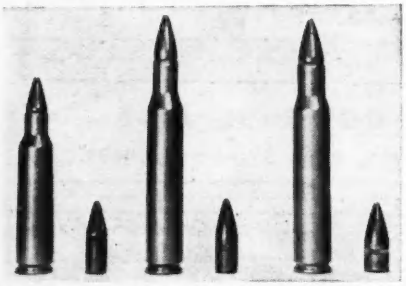
answers by THE RIFLEMAN'S PANEL OF EXPERTS

Julian S. Hatcher • Al Barr • Elmer Keith • M. D. Waite

NEW VARMINT SOFT-POINT LOADS

In recognition of the steady growth in the already large number of varmint shooters throughout the country, Olin Industries, Inc., owners of Winchester and Western, have recently brought out special varmint loads in three of the most popular big-game cartridges—the .250 Savage, the .270 Winchester, and the .30-'06. Bullets for these three cartridges are spire point or semi-pencil point, a shape adopted for good accuracy, high



Western and Winchester have recently brought out soft-point varmint loads for three popular calibers. They are (left to right) .250 Savage with 87-grain bullet, .270 Winchester with 100-grain bullet, and .30-06 with 110-grain bullet

remaining velocity, and consequently flatter trajectory. These new Winchester and Western cartridges are shown in the accompanying picture.

Ballistics of the soft-point loads are:

	.250 Savage	.270 Winchester	.30-'06
Velocity	*87-Grain*	*100-Grain*	*110-Grain*
Muzzle	3000	3540	3480
100 Yards	2710	3210	2920
200 Yards	2430	2890	2440
300 Yards	2170	2600	2020
Energy			
Muzzle	1740	2785	2950
100 Yards	1420	2290	2080
200 Yards	1140	1855	1450
300 Yards	910	1500	995
Mid-Range Trajectory			
100 Yards	0.5	0.4	0.4
200 Yards	2.5	1.5	2.0
300 Yards	6.0	4.5	5.5

The new bullets are designed with light jackets strong enough to stand high velocities, yet thin enough to upset readily, and they may be expected to go to pieces on striking the ground, thus keeping down the danger from ricochets.

These are strictly varmint cartridges which are not satisfactory for use on big game, even on such light game as deer, as the bullets would lack killing power.—J. S. HATCHER.

SPATTERLESS GALLERY CARTRIDGES

The Remington Arms Company has recently announced the improved Remington special composition Spatterless bullets for gallery use. The bullets are made of a special composition containing no lead, hence doing away with any danger of lead poisoning in shooting galleries. The bullets pulverize completely on striking a backstop and there are no fragments left to cause any damage. An ordinary piece of kraft paper was mounted at 14 inches in front of a steel backstop and 50 shots were fired through this screen. Not a single particle bounced back enough to pierce the paper screen 14 inches in front of the point of impact. A similar test with ordinary lead bullets resulted in countless perforations through the paper screen.

In addition to being completely spatterless, the new bullets throw out a bright, non-inflammable spark when hitting the metal target. They tell the shooter where he is aiming. He also has a louder report, which adds to the fun of gallery shooting. The Remington trade name for this new bullet is the "New and Improved Remington Spatterless". This same item is put out by Peters under the name of "New and Improved Peters Krumble-ball .22 Short Gallery Special Cartridges".—J. S. HATCHER.

MAUSER BOLTS

Not long ago I was shown a Model '98, 7.92 mm. cal., military Mauser on which the receiver bridge was cracked from the safety lug recess diagonally up the right side of the receiver bridge to the clip loading notch. The owner, having heard of excess headspace, had had the headspace checked by a gunsmith before firing the rifle and had been informed that it was OK. Therefore he was at a loss to understand why the receiver bridge had cracked when he fired the rifle. Incidentally, he had not noticed the crack until after he had fired some 15 to 20 rounds.

On looking the rifle over, I noticed the number on the bolt differed from that on the receiver, and concluded that the bolt had either been locking on the safety lug instead of the locking lugs, or that the safety lug, as well as the locking lugs, had been in contact. Since the recess for the safety lug is in the bottom of the bolt way in the '98, this condition could exist and not be readily apparent as it would be on a Springfield where the safety lug is in full view.

Therefore, it would be wise to use a little Prussian blue or some other spotting color to definitely establish that the bolt is not locking on the safety lug in those actions where the bolt and receiver do not bear identical numbers, or when it is desired to fit a new bolt to a Mauser receiver. If the receiver is soft, it is also possible for the bolt to set back sufficiently from extended firing to permit the safety lug to make contact, regardless of whether the numbers are identical or not, unless there is plenty of clearance.—JOSEPH V. LOWRY, Bowling Green Station, New York.

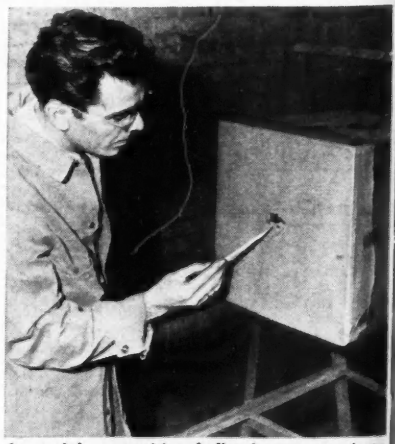
STANDARD ARMS COMPANY

I have an automatic rifle, .25-caliber Remington, made by the Standard Arms Company of Wilmington, Delaware, patented 1906.

This rifle was one for presentation and is beautifully engraved and has on it the name "Charles M. Bartholmes." I was unable to find any description of this rifle in the NRA Small Arms book on rifles by W. H. B. Smith. —A. J. MERRITT, Bridgeport, Connecticut.

Answer by M. D. Waite: The Standard Arms Company of Wilmington, Delaware, was organized in 1909 to manufacture both gas-operated and slide-action hunting rifles.

Their gas-operated rifle was chambered for the .25, .30, and .35 Remington rimless cartridges and was available in various grades, from plain to elaborately engraved and etched models. Their hand- or slide-operated rifle was strongly built and of pleasing design, but



A special composition bullet in new Remington and Peters gallery loads disintegrates upon hitting a backstop, eliminating danger from splatter. During tests with cartridges, not a particle bounced back through heavy paper placed 14 inches in front of steel backstop

unfortunately it was inclined to jam and lock shut without warning. The same fault was more or less characteristic of their gas-operated model.

The Standard firm went out of business two or three years after going into production.

SCOPE MOUNT FOR LEATHERNECK

I would like very much to mount a Zeiss Jena Zielvier scope on my H&R Leatherneck model 165 rifle, but the gun has a peep sight on it which I like very much. What mount can be used with a peep sight?—BILL MCATEE, Fulton, Missouri.

Answer by Elmer Keith: Write M. L. Stith, Transit Tower, San Antonio, Texas, and see what he has to offer. I believe Stith could give you some sort of mount to go on that Leatherneck that you could use with the peep sight.

Probably the Griffin & Howe side bracket mount could also be used, as it incorporates windage, which you will need. Address Griffin & Howe, Inc., 202 E. 44th Street, New York, New York.

Chances are you will never want to use the peep sight after you get the scope in place.

CONVERTING .401 WINCHESTER

Would you think it possible to rebarrel the .401 Winchester autoloader to .30 or .25 caliber using the .401 case necked down to proper size and the 87- to 100-grain .25-caliber bullet or 93- to 125-grain .30-caliber bullet? If the standard .401 pressure is not exceeded, it might still be a snappy little autoloader for plinking at rabbits.

I realize it is a blowback action and the pressure might be too great, but have not found anyone who is willing to commit himself on the proposition.—B. G. SIMMS, Sacramento, California.

Answer by General Hatcher: The .401 Winchester autoloader cannot be rebarreled to use a necked-down cartridge case, because the functioning of the blowback action of the gun depends on the use of a straight case.

If an attempt were made to use a bottleneck case in a blowback gun, the gas pressure acting in a forward direction against the shoulder of the case would hold the front part of the case firmly in position in the chamber, while the rear part of the case would move back with the breechblock, and the case would rupture.

INTERESTING .250 SAVAGE LOAD

In my standard model 70 Winchester with Weaver K6 scope, I have developed an excellent load using the Ideal bullet No. 257310 cast of pure linotype metal. As cast and sized to .258-inch diameter, it weighs 84 grains. Using 20 to 24 grains of 4895 powder with this bullet, I have obtained excellent accuracy. The 24-grain charge seems best, and several ½-inch or smaller groups have been made at 100 yards with it. The average diameter of twenty-five five-shot groups is 1.43 inches. In a rifle sighted ½ inch high at 50 yards, the load shoots 1½ inches high at 100 yards and 1½ inches low at 150 yards. — FRANCIS SCHMITT, Oakland, California.

FLOORPLATE FOR ENFIELD

I want to restock my Enfield but I don't like the magazine as is or straightened, as it is too wide. Can a Springfield magazine and guardplate be made to fit an Enfield without a lot of work by a gunsmith?—M. P. ROCHE, Emmetsburg, Iowa.

Answer by M. D. Waite: The entire Springfield trigger guard and magazine assembly can be adapted to the Enfield receiver by lengthening the tang a suitable amount. It would

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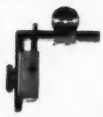

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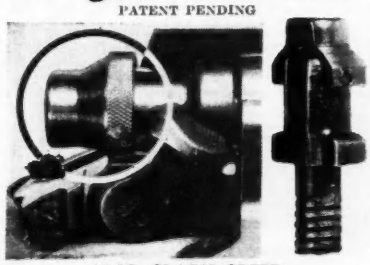

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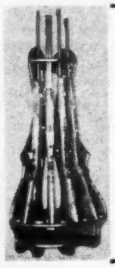

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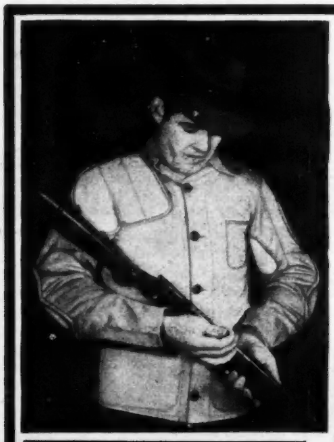

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REVOLVER BULLET SEATING DEPTH

As a beginner in the handloading game, I am confused as to how bullet seating depth is determined for a given revolver bullet. Is it possible to determine seating depth from an examination of the bullet? For example, no seating depth is given for Ideal bullet 360344-S. Am I correct in assuming the top bevel groove is the crimping groove? If so, how can I determine the seating depth of revolver bullets without this bevel groove, such as 360721-S?—JACK D. FULLER, Birmingham, Michigan.

Answer by Elmer Keith: Ideal bullet 360344-S should be crimped in the forward beveled crimping groove which also automatically takes care of seating depth. All properly designed sixgun bullets have a proper crimping groove, including my .38 Special No. 358431. I would not advise using any sixgun bullet without a crimp groove, as it is needed for proper combustion and pressures, and also to prevent bullets jumping their crimp and tieing up the gun.

No. 360271-S is a bullet with no proper crimping groove and you would simply have to seat it friction tight. I would never recommend such a bullet. Such a bullet is intended to be seated with the front band flush with the mouth of the case as a wadcutter. If such a slug is to be used, the case should have a cannelure at the place where the rear end of the bullet comes when the front band is seated flush with the case mouth.

LIGHT BULLET .30-'06 LOADS

Charles Schwartz, 109 Lockwood Ave., Woodbridge, N. J., has passed along some pressure and velocity dope obtained with 110-grain Barnes spitzer soft-point bullets using Winchester 120 primers and 42.0 grains Hercules Lightning. The velocity average for this mild load was 2,609 feet per second at 41,450 pounds average pressure, with the maximum pressure going to 43,800 pounds. Using a 125-grain Barnes spitzer bullet in the same .30-'06 case with the 120 Winchester primers and 50 grains HiVel No. 2, the average velocity was 2,947 feet per second at only 42,490 foot pounds pressure. Maximum individual pressure was 45,800 pounds. These are perfectly safe loads, which normally could be increased a grain or two in most rifles.—A. H. BARR.

.40-82 INTO .348?

Can a Winchester model 1886 lever-action rifle of .40-82 caliber be rebarreled for the .348 Winchester cartridge? I have a chance to buy a .40-82 in excellent condition with cartridges and a reloading tool and have noticed in a Stoeger catalog that the model 71 Winchester, .348 caliber, is described as having an '86 action. Is there enough similarity and strength in the old action to warrant rebarreling with a .348 barrel?—DONALD W. INSKEEP, Bangor, Maine.

Answer by General Hatcher: No. The old 1886 is not strong enough for the .348 cartridge. True, the model 71 is a duplicate of the 86 action as far as mechanical principles are concerned, but the model 71 is made of modern heat-treated steel and there is a vast difference in the strength of it and the 86.

FOULING FROM BULLET CHANGES

I'm a .30-caliber shooter and use both high-speed jacketed and cast lead bullets in the same rifle. The cast bullets, composed of five percent tin, five percent antimony, and ninety percent lead, are driven at 1700 feet per second and have never caused fouling.

However, I have heard that switching from lead to jacketed bullets in the same rifle would cause a fouling in the barrel about four inches ahead of the chamber, which would destroy accuracy. They tell me such fouling cannot be removed with either Hoppe's or hot water. If this is true and the fouling does occur, how can it be removed? I have fired hundreds of rounds of both kinds of bullets and the rifle is as accurate now as ever.—A. N. NACHTERGAELE, Portland, Oregon.

Answer by General Hatcher: We don't believe that story about fouling being caused by changing from lead to jacketed bullets, or vice versa. It has been our regular practice for years now, and we have never seen any fouling resulting, nor have we ever had anyone else report it.

LOADS FOR H&H MAGNUMS

Will you please suggest loads with latest components for the following that will duplicate factory loadings:

a) .300 H&H for Remington 721 rifle using 110-grain, 150-grain, and 220-grain bullets. Also, the accurate 1000-yard load using the M1 173-grain boattail bullet or 180-grain flat-base bullet. Both target loads.

b) .375 Magnum for Model 70 Winchester using 270-grain and 300-grain bullets. Also, a load for the Ideal gascheck bullet No. 375449 that can be used for 100- or 200-yard practice.

There is little up-to-date information available for the above two cartridges. I hope the RIFLEMAN will include them in the series now running.—WALTER M. EVANS, Indianapolis, Indiana.

Answer by Elmer Keith: There is no reason for using the 110- or 150-grain bullets in the .300 H&H rifle as the 180 grain catches up with them and is superior at 300 yards or more and a better killer on anything.

You can load 68 grains of 4350 with 150-grain bullet in the .300 Magnum for 3300 feet per second but that short bullet is not as good at 300 yards as the 180 grain.

My old match load was 67 grains of 4350 with both the 173-grain M1 bullet and the 180-grain match boattail, but some rifles will handle only 65 grains with the 180-grain match boattail. It gives around 3100 feet. A load of 57 grains of No. 4064 is also very useful with the 180-grain sporting bullets and gives over 3000 feet per second. Some rifles a trifle more.

With the 220-grain bullet, load up to 60 grains of 4350 but work up slowly as some rifles won't handle over about 57 grains with the 220 grain. It's a great killing load.

With the .375 Magnum, load 64 grains of DuPont 4064 for about 2500 feet per second. With the 270-grain bullet, load 69 to 69.5 grains for about 2700 feet per second. These are wonderfully accurate loads. With the Ideal gascheck No. 375449, use about 30 to 35 grains of DuPont 4759 for velocities from 1650 to 2000 feet per second.

Articles on loads for both .300 and .375 Magnum calibers are scheduled for publication in the RIFLEMAN, the .375 in June.

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COATED OPTICS. Superb optical quality, dependability, rugged, properly describe them. New! 6x30 Silvamar $105.00. 8x30 Deltrintem $117.00. Add Federal tax. Case, straps included.

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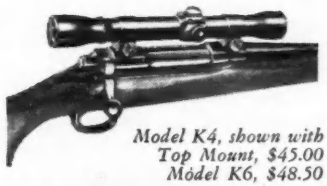
Model KV, Variable Power, 2¾X to 5X, shown with Weaver Detachable Top Mount, $57.50



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Model K2.5, shown with Side Mount, $37.50

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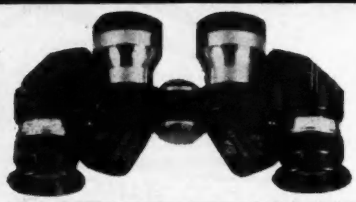

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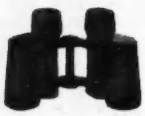

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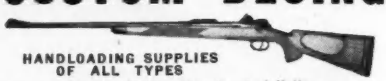

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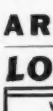

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NEW PRODUCTS

Lightweight recoil pads, designed for use on rifle gunstocks, have recently been announced by Pachmayr Gun Works, 1220 S. Grand Avenue, Los Angeles 15, California. The pads are designed to give a maximum of efficiency in cutting down on effects of recoil.

Shotgun shell reloading outfits are being manufactured by B. E. Hodgdon, Merriam, Kansas. The shot reloader is relatively inexpensive, very simple in design, and easy and fast to operate. Mr. Hodgdon indicates that the tool is about twice as fast as any other shell reloading tool on the market. A unique crimping device is to be used in connection with an electric motor, Mr. Hodgdon claiming that speed is essential to a good crimp.

Engine-turning fixture designed by C. Pedersen & Son, Ludington, Michigan, is mounted on a cast iron base and adjustable for indexing rifle bolts. The Rex bolt-turning jig is designed for mounting on a board and clamping to the drill press table. Thus uniform spacing of the engine-turning feature is possible, both longitudinally and around the bolt circumference. The gadget will sell for around $27.50 with one adapter. Extra adapters for different bolts can be obtained at one dollar each.

Chemically treated paper in which guns and other steel products can be wrapped for protection in shipment has been developed by the Nox-Rust Chemical Corporation, 2429 Halsted Street, Chicago 8, Illinois. Called Nox-pound Nox-Rust Vapor Wrapper, the paper is a newly developed product which gives protection against rust. Sears, Roebuck & Company have tested the chemically treated paper and found it satisfactory for the protection of guns in storage and in shipment.

A powder metering device for speeding the final operation of tossing accurate powder charges onto the pan of a powder scale has been developed recently by Brown & Brown, 1206 B Avenue, La Grande, Oregon.

The idea back of the device is that a powder measure will be set up to throw approximately ½ to ¾ grain less than the desired load and then by rotating a knurled knob on the side of the cast iron base a kernel or two of powder at a time is metered out until the exact charge is thrown. The probable retail price will be around $15.00.

.22-caliber bullets to go with their fine .270, and other caliber bullets already on the market are being planned by Hornady Sporting Goods Company, 216 W. Fourth Street, Grand Island, Nebraska. The .22 caliber will include 45-grain and 55-grain weights in both .223- and .224-inch diameters.

TRADE DOPE

Howard Lawrence, 4 Lantern Lane, Philadelphia 3, Pennsylvania, offers a rather unusual service to the gun owner and ammunition reloader. Bullets can be radiographed to reveal air bubbles, or loaded cartridges may be radiographed to show up uneven or over crimp. The cost is one dollar for as many bullets

cartridges as can be arranged on a 4½ x 10-inch radiograph.

C. E. Hand & Son, 17 W. West Street, Baltimore 30, Maryland, sent us a sample of pure imported Carnauba wax and turpentine for polishing gunstocks. According to the information we have, no resins or oils are used to cheapen the product. When used on gunstocks, Carnauba wax gives a beautiful, lustrous finish with a minimum of effort. It is certainly a product that can be recommended for dressing up old gunstocks. Packaged in paste form in a four-ounce tin container, the price is $1.00.

Hal Hartley, Route 4, Lenoir, North Carolina, who specializes in gunstock work, does a very beautiful job at a reasonable price. Recently we examined a maple stock fitted to an Enfield, and with a thinned down magazine the job made the nicest Enfield sporter we have seen. The inletting, checkering, and stock design are extremely neat.

Colt Manufacturing Company, owners of Colt single-action Army revolvers will be pleased to learn, will shortly have available replacement cylinders and barrels in .45 Colt and .38 Special calibers. Owing to the fact that tools are not available, barrels and cylinders for the single-action Army cannot be made for other calibers. In addition to the barrels and cylinders, a few other small repair components of the single-action Army will be made. Inquiries should be addressed to Service Department, Colt Manufacturing Company, Hartford 15, Connecticut.

Western Gun Exchange, 441 S. Greenleaf Avenue, Whittier, California, recently sent out a list of spare parts which they can furnish for Luger, Walther P.38, PP. and PPK models, Mauser 7.63-mm. and 9-mm. caliber military pistols, and other foreign-made pistols, largely out of their present stock for foreign pistols. The list, which also includes many parts for Springfield, Enfield, models 98 and 88 Mauser rifles, is complete with price of each individual part.

Marker Machine Company, P. O. Box 426, Charleston, Illinois, report that they have developed a system of chrome lining the inside of rifle and shotgun barrels. According to the information we have received, the work can be done on any barrel. We already have a selected barrel which has given fine accuracy previously in the process of being lined and will report on its performance later.

Firearms International Corporation, 1526 Connecticut Avenue, Washington 6, D. C., announces further reductions in the cost of Fabrique Nationale products. The FN rifle is now retailing at $137.50; and a complete FN barrel and action, available in popular calibers such as .30-'06, .270, .257 and others, is now $71.50. The regular retail figure for the genuine FN Mauser action is $45.00, but discounts are given to dealers and gunsmiths. All of these items are assembled and proof-tested at the Fabrique Nationale plant in Belgium.

Lynx-Line Products Division, Protective Coatings, Inc., P. O. Box 3985, Detroit 27, Michigan, has recently published the 1950 edition of Lynx-Line Gun Care Products catalog. Many items for the gunsmithing trade are listed in it. It has many helpful suggestions on bluing and other gunsmithing items also. This new 1950 catalog costs one dollar.

(See Picture Story on Gunstock Graining, This Issue)

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The most complete, extensive and applicable work ever written on gunstock finishing, care and treatment—16 chapters, 437 text pages.

Covers bleachers, fillers, sealing compounds, water and moisture repellents, stains, driers, drying oils, varnishes, lacquers, shellacs and plastic finishes with chapters on waxes, polishing, cleaning and rubbing compounds.

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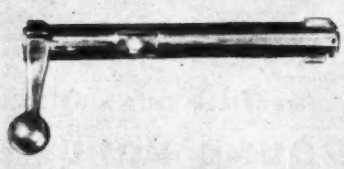

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Pacific Gun Sight Company, 355 Hayes Stree San Francisco 2, California, report that th can now furnish reloading tool dies for th new Remington 222 caliber.

Al Leonard, 1809 Cherry Street, Saginaw Michigan, is set up to perform a service f handloaders not having proper full-leng case-sizing equipment. He will full-leng size cases of any caliber for one cent each do the sizing job plus priming for three cen each. Time alone will tell whether thi will be sufficient interest in this type serv to make it worth while.

Bob Moody of Helena, Montana, is now e rying on the work of supplying Keith bul heavy sixgun loads in .38-44, .357 S&W M num, .44 Special, and .45 Colt that were f merly furnished by J. Bushnell Smith of M dlebury, Vermont, and Dick Tinker of Hele Montana.

Arthur Kovalovsky, 5524 Cahuenga Bou vard, North Hollywood, California, one of t few gunsmiths in this country adept at t repair of fine double guns, has for some ti done an excellent job of converting the hea Remington and Browning automatics t handle the three-inch magnum twelve-bo shell with 1⅜ ounces of shot. He tests e gun and guarantees his work.

Ray Riling's Arms Collector Service will bi a year's twelve issues of the RIFLEMAN heavy durable buckram for $2.50. Magazi to be bound should be shipped prepaid, a the binding fee mailed, to Ray Riling, c Bindery, 923 Locust Street, Philadelphia Pennsylvania.

Ray W. Roberts, 140 W. Corey Street, Bro son, Michigan, makes a handy little gadg which could be called a thumb lever cam lo to replace the right-hand windage screw of t Redfield Junior mount so as to make the sc quick detachable. Having tried one of t attachments on a Redfield Junior mount, consider it a good practical lock for use wh the scope must be removed in a hurry.

BOOK REVIEWS

THE ULTIMATE IN RIFLE PRECISION

For some unknown reason the Bench R Shooters Association has issued as their 1 yearbook a reprint of the 1949 volume. I supplemented only by an article on the n .250 Donaldson and other .25-caliber c tridges by Townsend Whelen and a repr of an article of Al Barr's published in t magazine for the purpose of explaining bes rest shooting to those unfamiliar with it.

After seeing such an impressive first ann yearbook as the 1949 volume, containing cellent articles on bulletmaking, stocking bedding, chambering a barrel, and bes shooting technique, one wonders why Bench Rest Association did not publish m of such valuable information in the r yearbook.

(Published by the Sportsman's Press, W ington, D. C. Available through the N Book Service. Price $4.00.)

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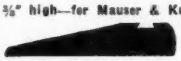

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380 Auto Hi Standard—4½" perfect $34.50

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NEW AND USED GUNS

NEW CROSMAN CO_2 GUNS
no pumping—lots of power
CO_2 Rifle—22 cal. or .177—Prepaid ..$19.95
CO_2 Pistol—22 cal. or .177—Prepaid..... 19.95

GUN ACCESSORY BARGAINS (Prepaid)

U.S. used A-1 leather slings, 1¼" ..... .98
U.S. new leather slings, 1¼" 1.75
Warshal Sling Swivels, 1"—1¼" pr. ..... .75
Quick Detach. Swivels, 1"—1¼" pr. 1.75
U. S. Rubber Recoil Pad & Boot ..... .49
.30 Cal. 1 pc. Gov't. Rifle Rods ..... .69
Shotgun Take Down Rods, Alum. 12-16—20 ga. .85
.22 Cal. Take Down Rods, Alum. ..... .69
Comb. .22 to .45 Cal. Pistol Rod 2 pc. alum. $1.25 value only ..... .85
Polychoke Gunners Guide Compass $3.00

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5-MAN SIZE—UNUSED NAVY SURPLUS COMPLETE WITH OARS & PUMPS. SHIPPING WEIGHT 40 LBS—FOB SEATTLE $39.50.

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FACTORY TO YOU
PREPAID
CORD PANTS

Heavy thickset corduroy. Bartacks at points of strain. Zip closure. 5 pockets. Wide cuffs & belt loops. Colors: cream, or buckshot brown or grey. Sizes 28 to 36. Prepaid. State waist & inseam measurements.

$4.95

Cords for Boys, 4 to 16.....$4.45

BRAND NEW SLEEPING BAGS

Money Back Guarantee!

Featuring the new SEPARATING ZIPPER that allows two single bags to be zipped together to make a large double bag!

100% DOWN FILLED BAGS
Finest poplin water repellent outer. Full separating zipper (two bags can be zipped together) air mattress pocket. Size 34x78. Wt. 7 Prepaid lbs. One bag only ..... $57.95) **29.95**
(TWO BAGS .....

DUCK DOWN & FEATHER Balloon cloth cover. Full separating zipper (two bags can be zipped together). Air mattress Prepaid pocket. One bag only, 33 x 74 Wt. 8 lbs.... **19.95**
(TWO BAGS.....$37.95)

"CHIEF" 100% WOOL FILLED 3 lbs wool filling. Full separating zipper (two bags can be zipped together). Air mattress pocket. Water repellent cover. Wt. 7½ lbs. One bag only, size 34x76. Prepaid $14.95
(Two bags, pp.....$27.95)

"SCOUT"—100% PRIME KAPOK FILLED Waterproofed cover and rubberized bottom—½ zipper opening—Tent head flap-size 33x68—Weight 6½ lbs. Prepaid $9.95

"CUB" 100% prime cotton filled—quilted in. Cover is water repellent with rubberized bottom. ½ zipper opening—Tent head flap.—Size 33 x 68. Weight 7 lbs. ..... Prepaid $8.95

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40% DOWN & 60% curled feathers. 30" zip. Clean & reconditioned. Mummy shape. Prepaid **$14.00**

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Sleeping Bag Covers, Prepaid 3.45
Rubberized Bed Roll Tarps, Prepaid 4.00
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AIR MATTRESS

Tubular type—25x72 prepaid..... $12.95
Tubular type—25x48 prepaid..... 9.95

ALL RUBBER AIR MATTRESS

Quilted type—25x72 prepaid..... $10.95
Navy Storm Parkas, Med., Lge, x-lge 2.95
Navy Storm Pants, Med. & Lge only 3.95
Jungle Hammock, A-1 cond. prepaid 3.95

NEW AIR FORCE Alpaca Lined Pants

Oxford cloth outer—water repellent. Full zipper each leg—complete with suspenders. Medium size fits 32 to 38.

$5.95 Pair Prepaid

B-15 TYPE BOMBER JACKET TO MATCH ABOVE AIR FORCE PANTS. SIZES 36 to 46 PREPAID **$9.95**

BINOCULARS PREPAID TO YOU

15 Days Free Trial.

MONEY BACK GUARANTEE

7 x 50 BINOCULARS
Imported type—guaranteed optics
Individual focus — brilliant field
Deluxe leather case & straps
7 x 50 Uncoated $35.00*
7 x 50 Coated 39.50*

6 x 30 Uncoated $30.00*
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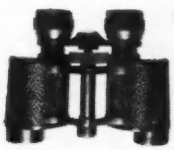
6 POWER HUNTERS Lightweight 14 oz. 25 m/m objective lens. A sturdy binocular particularly adapted to hunting and all outdoor sports—individual focusing. Large 8° field—445 ft. at 1000 yards. Complete with leather case & straps.

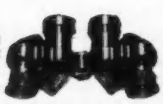
BARGAIN PRICE **$22.50***



FRENCH IMPORTED
8 x 25
BINOCULAR
PRECISION OPTICS . . . Brand New . . . Superb Quality . . . Money Back Guarantee.
WITH LEATHER CASE & STRAPS **$24.00***

8 x 30 French Imported $30.00*

6x30 BRAND NEW COATED — Surplus American Make
Complete with leather case.
Reg. $85 value. **$49.50.**



6 x 15 COATED
Pocket size—weight 5 oz. Full 6 power, individual focusing, large brilliant field—370 ft. at 1000 yds. Complete with zipper leather case. Price only **$18.95***.

* NOTE: ADD 20% FED. TAX ON ALL BINOCULARS. All Binoculars sold on money back guarantee of satisfaction. Prepaid.

OFFICER PINKS

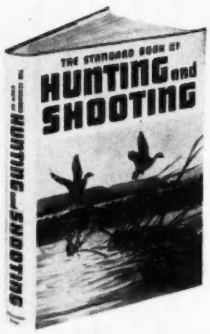
Heavy sanforized cotton Landshire Twill. Made in our own shop so we guarantee workmanship and material—all regular sizes. Also available in Forest Green color.

PREPAID **4.95** pr.

WARSHAL'S SPORTING GOODS CO.

FIRST AND MADISON, DEPT. B — SEATTLE 4, WASH

NRA BOOKS



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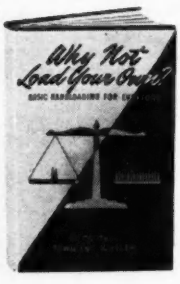

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THE RIFLE BOOK

The best of Jack O'Connor's knowledge of rifles, shooting and cartridges. $5.95

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NRA Book Service

1600 RHODE ISLAND AVE. N.W. WASHINGTON 6, D. C.

Weaver KV Scope

Price $57.50

We will allow you $28.00 for your K2.5 on this new 2¾-5X Weaver. Trades accepted on other items such as guns, targets scopes, pistols, etc.

Lyman Super Targetspot, $90.00. Lyman Junior	$ 62.50
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Unertl 2", $125.00. Unertl 1"	58.00
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Remington 722-222, .257 Roberts, .300	74.95
Remington 721, 270, 30'06, high comb.	79.95
Winchester 70 Target, 30'06, .257, .220	147.52
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10 cents in stamps brings our catalogue describing loading tools, bullets, primers, powders, match and regular ammunition, shot, wads, vermin, hunting and target rifles. Everything for the shooter.

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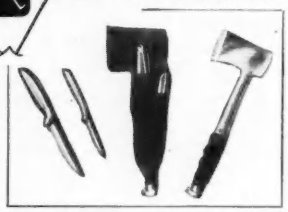
TRIPLE BLADE

Fisher "Woodsman"



A 4½" hunting knife and 3" fish knife, hand ground from finest tungsten steel, with aluminum alloy handles. *PLUS*, an unbreakable, lightweight hand-axe with head and shaft forged in one piece of steel, laminated leather grip handles. Blades and axe fit securely into Heiser saddle leather sheath with belt loops. Overall length 13"—weight, 22 oz. This kit cannot be surpassed for utility, high quality steel and compactness. *Satisfaction guaranteed. Send check or money order. Price postpaid . . .* **$18**

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4 oz. magazine for Enfield & 98 Mauser. Capacity 4 rounds—.300 or .375 Magnum. Hinged floor plate—anodized finish. $10.50 each—$8.50—6 or more—Duty Pd. Delivered.

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SWEDISH — HAND FORGED

WOOD CARVING TOOLS

The very finest Eskilstuna steel. Unexcelled for carving gun stocks and professional wood sculpture. Also Hawaiian hardwood (monkey-pod) for beautiful stocks. *Write for details.*

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THE COMPLETE STOCK FINISH

"Professional" is waterproof, oilproof and does not darken wood. No filler or special tools needed. The answer to shifting point of aim due to climatic changes. Contains no linseed oil. Produces a perfect finish. Kit with 4 oz. bottle $2.00.

R. F. EWOLDT Country Club Road Crawfordsville, Ind.

The Standard Book of HUNTING AND SHOOTING

For anyone who frequents the outdoors, whether deer hunter, trapshooter, dog fancier, or camping enthusiast, this book contains a wealth of useful information. It is a judicious abridgement of the mammoth 1500-page *Hunter's Encyclopedia*, published about two years ago, containing most of the how-to articles from the original volume.

The firearms and ammunition sections of the book are detailed and explicit. Introduced by a brief history of the development of rifles in this country, they contain explanations of the operation of different types of actions, and several pages which can only serve to clarify the confusion which exists about the large variety of caliber designations. The firearms section also contains two excellent instructional pieces. One is a careful step-by-step article on rebuilding a military rifle into a sporter; the other is an excellent treatise on rifle marksmanship.

Almost half of the book is devoted to a summary of the physical characteristics of small and big game, upland birds and waterfowl, and specific recommendations as to caliber or gauge and type of gun for use in hunting each, as well as discussions of the best hunting methods.

The rest of the volume contains much miscellaneous information on such varied subjects as dog care and training, building blinds and decoys, selecting camp shelter and bedding, and cooking in the outdoors.

Priced to sell at a much lower price than the *Hunter's Encyclopedia*, this volume is a real bargain.

(Published by Greystone Press, New York. 562 pages. Available through the NRA Book Service. Price $5.95.)

OFFICIAL GUN BOOK

Edited by Charles J. Jacobs

This book is not an 'official' publication of any governmental unit or of the NRA or any other shooting organization. Several members of the NRA staff contributed articles without reimbursement under the impression that the book was to be published under a different title. The appearance of these names in the book now, unfortunately, contributes to the misleading impression that it is an official publication of the NRA.

Aside from what may appear to some readers as an attempt to capitalize improperly on the prestige of the national shooting organization, the book should be well received.

It is a better-than-average attempt to compile material for a 'comprehensive' gun book. Such men as Major General Julian S. Hatcher, James J. Grant, Charles T. Haven, Edwards Brown, and a dozen other well-known gun personalities have contributed material which is divided into four sections of Ammunition, Handguns, Rifles, and Shotguns.

This book contains information on almost every phase of shooting and related activities, including information on reloading, firearms identification, scopes and sights, shotgun development and use. Most of it is factual and contributes to an understanding of small arms, though one contributor to the section on ammunition is so concerned with discussing and advancing his personal opinions that he fails to impart any information which will enable the reader to develop a general understanding of the subject.

(Published by Crown Publishers, New York. 178 pages. Price paper-bound $1.50, Deluxe edition $2.50.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, addressed to "The Arms Chest," American Rifleman, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: June 1st for the July issue. Ads received after June 1st and not later than July 1st will be inserted in the August issue.)

3. All Ads Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

4. Transactions Based on Good Faith: Deliberate misrepresentation, or violation of the codes of good sportsmanship and good business ethics, will constitute grounds for refusal of advertising, and may result in disbarment from N.R.A. membership.

5. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

6. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith (W. H. counts as one word); H. B., meaning heavy barrel, etc.; W. H. and H. B. are one word) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

7. No Responsibility for Illegible Copy: The publishers are not responsible for errors in printing advertisements, due to illegible copy; type or print clearly all ads.

8. All Articles to Be Properly Described: To avoid misunderstandings the condition of every advertised article should be described in accordance with the following definitions, NEW—not previously sold at retail, in same condition as current factory production; NEW—DISCONTINUED—same as NEW, but discontinued model. The following definitions will apply to all SECOND-HAND articles: PERFECT—in new condition, in every respect; EXCELLENT—new condition, used but little, no noticeable marring of wood or metal, bluing perfect (except at muzzle or sharp edges); VERY GOOD—in perfect working condition, no appreciable wear on working surfaces, no corrosion or pitting, only minor surface dents or scratches; GOOD—in safe working condition, minor wear on working surfaces, no broken parts, no corrosion or pitting that will interfere with proper functioning; FAIR—in safe working condition but well worn, perhaps requiring replacement of minor parts or adjustments which should be indicated in advertisement, no rust but may have corrosion pits which do not render article unsafe or inoperable; POOR—badly worn, perhaps requiring major adjustments or repairs to place in operating condition.

9. WARNING TO PURCHASERS: The publishers *will accept no responsibility* for *any* unsatisfactory transaction involving articles which have not been described in accordance with the foregoing NRA standards. Purchasers or traders should therefore insist that sellers give clear descriptions of all articles, in accordance with these standards—*before* any transactions are consummated. Purchasers should also request shipment by express C.O.D., *with examination privileges;* the purchaser may (and should) then examine the shipment in his local express office—if unsatisfactory the article will then be returned by the express company to the shipper, at the latter's expense.

10(a). The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

(b). In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

11. Fair Trade Laws: Advertising will not be accepted for articles to be sold in violation of Fair Trade laws, after the manufacturer has advised the NRA that such violation exists.

FOR SALE

WINCHESTER CARBINES, CAL. 30-30 LIKE new, Special Price $55.00. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

CARTRIDGE BELT WITH TWO HOLSTERS for single action. Write for particulars. Henry Lefebre, 2200 8th Ave. So., Great Falls, Montana.

AMERICAN RIFLEMAN IN AMERICAN Rifleman binders 1935-1949 inclusively except 1939. Best offer accepted. Merrill Anderson, 2881 North 59th Street, Milwaukee, Wisconsin.

RIFLEMAN NOVEMBER 1935 DECEMBER 1949 inclusive $25.00. Gates Romer, Victory Blvd., New Rochelle, N. Y.

WINCHESTER M 75, CHECKERED GRIP, inside excellent, outside good, $45.00. Haenel-Aydt 8.15 x 46mm, no sights, inside very good, outside fair, butt plate rusty, $45.00. Springfield .45/70, bayonet ramrod, good, $12.00. Converted 98 Mauser, Buehler safety, low bolt, Weaver mount for K 2.5, Herter stock, no fore end tip, 25" barrel pitted but accurate, no sights, $25.00. J. G. Baron, Hotel Bolton Square, Cleveland, Ohio.

WEATHERBY 270 MAGNUM, ENFIELD action, Challenger scope, Redfield mount, 54 rounds, used two seasons. $225.00 with case & sling. A. C. Stoner, Box 394, Johnstown, Colorado.

CROW CALLING PHONOGRAPH RECORDS of calls used in winning National Crow Shooting championship. Basic calls and instructions for use anywhere, anytime. $5.00 each. Bert Popowski, Aberdeen, South Dakota.

INVENTORS—IF YOU BELIEVE YOU have an invention, you should find out how to protect it. Send for copy of our Patent Booklet "How to Protect Your Invention" and "Invention Record" form. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 251-R Victor Building, Washington 1, D. C.

GET MORE GAME WITH SHOOTING-Master, the new and better shotgun choke. Write for pamphlet "Better Shooting". Shooting-Master Corp., Gardner, Mass.

RUCKSACK (PACK-SACK) GENUINE Army surplus, cost Army $15.00. Light metal frame, roomy canvas bag. Every hunter, camper or scout should have one, used condition. Bargain price $5.95, plus postage. Miller's War Surplus, 424 East Holt, Pomona, California.

FACTORY REJECTS — OUTSTANDING value! Same genuine imported briar as our regular $10.00 pipes. Have only surface flaws not affecting superb smoking qualities. 2 for $1.00. Satisfaction guaranteed. Gaylords, Dept. 199, Brockton 64, Mass.

COLT OFFICER'S MODEL TARGET, H.B. #750722 excellent, Micro sights, cockeyed hammer, short action; Berdon processed. $75.00. Robert W. Nissley, 501 W. Fairmount Ave., State College, Penna.

NAVY OXFORDS, GENUINE U. S. SURplus, finest black calfskin, famous makes, specify size, $7.95. Check or money order. (Add 50¢ for postage and handling) AR Rudolph's, Atchison, Kansas.

OLD CATALOGS AND ARMS BOOKS FOR sale. Send for new list and Arms Information card. Hugh Smiley, Henniker 10, N. H.

NEW RIFLES. REMINGTON 722, 222 CAL. or 257 Roberts $74.95. Winchester 43-22 Hornet $54.95. New scopes K4 $45.00. K6 $48.50. New Winchester 12 matted rib, 12 ga. Skeet Choke #2, $126.45. Harold's Sports Outlet, 17 College St., Clinton, N. Y.

RIFLEMAN—NOV. 1935 TO DEC. 1949, SIX missing, $25.00. E. A. Vigus, 421 Ash, Boulder City, Nevada.

RELOADS—38 SPL. $2.50; 45 AUTO $3.00 per hundred in your cases. Write for details. Wentworth's, 9128 So. Mayfield, Oak Lawn, Ill.

ELECTRIC PENCIL: ENGRAVES ALL Metals $1.25 postpaid. Beyer Mfg., 10511-Z Springfield, Chicago 43.

WALNUT BLANKS, RIFLE $1.50, SHOTGUN $1.00, Fancies $5.00 up. Finished Stocks Mauser, Springfield, $15.00. Bray, Newburg, Iowa.

SPECIAL BARGAIN OFFERS! SEND 10¢ for our new #7 illustrated Hunting, Camping and Firearm Accessories Catalogue which contains hundreds of brand new War Surplus and other bargains especially selected for all those who love the outdoors. Life Member, Philip Jay Medicus, Dept. A-5, 18 Fletcher Street, New York 7, New York.

BIG CATALOG, ANTIQUE GUNS, $1.00. 475 photographs. Satisfaction guaranteed. G. B. Hebard, Knoxville, Illinois.

NEW MODELS 5E, 4E, ITHACA TRAP guns, 43 Hornet, Bee, 70, Hornet, Swift, Robert's, 270, 30/06, 300, 375 Magnum's, 141, Remington's, 99, Savage 250/3000, 300, Large selection guns, rifles, handarms, scopes. Price free list 10¢. Overly's Gun Rack, Ephrata, Penna.

FOR SALE: WALNUT, CHERRY AND curly maple gunstock blanks sawed to patterns. L. G. Stockberger, Garrettsville, Ohio.

TIRED! WANT TO GET AWAY FROM IT all? Plan your vacation in Canadian wilderness now. Camp Stanley on Spruce Lake. Fish—Hunt or just be lazy. Patronized by discriminating sportsmen. Write for details and reservations. Reasonable rates. S. T. Mundt, Member, Mile 71 Algoma Central R.R., Sault Ste. Marie, Ontario, Canada.

PERCUSSION COLT AND REMINGTON parts. Flint and percussion locks. List 25¢. C. H. Weisz, 100 S. Uhle Street, Arlington, Virginia.

GENUINE SA COLT PARTS, SERVICEable:—Hammer $3.50; trigger $1.50; gate $2.00; trigger guard $3.75; ejector head $2.25; mainspring $2.25; screws 35¢ each; hand w/spring $2.50; base pin $1.25; .45x5-½" barrels, pitted, $3.00. 20-shot magazine for .30/06 Springfield $7.00. Parts for C&B revolvers. B. K. Wingate, Box 154, Carlisle, Penna.

REVOLVERS, SMITH & WESSON HAMmerless, new departure model, cal. 38, blue steel, 3¼" and 4" barrel, good condition, price $29.50. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

Response is Remarkable!

"The first 'Arms Chest' ad we ran, over a year ago, swamped us with orders for several months.

"Then we tried a small display ad—and the results have been little short of phenomenal"—*Tex.*

***Many* profitable businesses have been built up from humble beginnings, with a lone classified ad as a starter, in the "Arms Chest." If you have a *good* product or service, of usefulness to shooters or outdoorsmen, we suggest you give us a chance to prove what we can do for you, also!**

☆ ☆ ☆

Final closing date for the July issue is June 1st; full instructions above.

WHAM-O SPORTSMAN* $1.00

HITS LIKE A .22 RIFLE—
KILLS RABBITS, SQUIRRELS.
Powerful, silent, accurate.
For hunting, target,
routing pests.

*At dealers or send direct

HUNTING SLINGSHOT
Heavy ash hardwood stock.
Forty steel balls, extra rubber straps.
GUARANTEED. Send $1.00 today to
WHAM-O MFG. CO., Box 8A, South Pasadena, Calif.
* The professional model of the Nat'l Slingshot Assn

TENTS & CAMPING EQUIPMENT

New Tents: 2-man mountain style, nylon $15.95; canvas $11.95. 5 x 7 wall $10.95; 7 x 7 $12.50. War Surplus, used, reconditioned: Pup tents, single flap $2.95; double flap $3.95; 9 x 9 wall $21.95; 16 x 16 $32.95. Poles & Stakes included. Check or M.O. Money Back Guarantee.
FREE TENT & CAMPING CATALOG.

MOR-SAN-SALES 10-19 50th Avenue Long Island City 1, N. Y.

NOW ONLY $1.00 plus 25c mailing.

544 pages

Biggest and Greatest Guide for the latest in Hunting and Sports Equipment

1950 "Shooter's Bible"

Brand new instructive articles by leading authorities on Hunting and Fishing. Latest Prices and new items. GUNS of all makes. Ammunition. Parts. Accessories. Fresh and salt water Fishing Equipment. Outdoor Clothing. Books on every outdoor subject. Over 20,000 items and 9,000 illustrations.

Send Coupon Today for maximum enjoyment of your favorite outdoor sport

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45-17 Pearson St., Long Island City 1, N.Y.
Enclosed find $1.25 (check or money order) for 1950 edition of the "SHOOTER'S BIBLE" A.R. 5-50
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THAT WONDERFUL WINCHESTER GUN OIL

• Prevents Rust
• Lubricates
• Stays Put
• Cleans

ANOTHER OLIN PRODUCT

ONLY 25¢

Winchester Repeating Arms Company • Division of Olin Industries, Inc. • New Haven 4, Connecticut

CANJAR

PRECISION TRIGGER
for Winchester 52

52-2 Single Trigger (Left)	$22.50
52-2A Set Trigger (Right)	32.50
52-2B Combination Set and Single Trigger	34.50

Write for Details

M. H. CANJAR 4476 Pennsylvania St. Denver, Colo.

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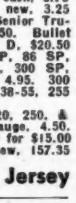

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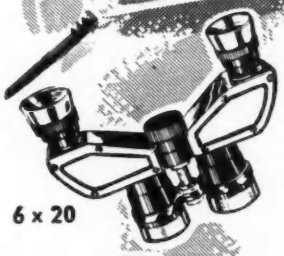

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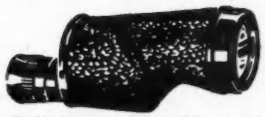

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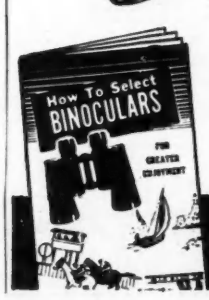

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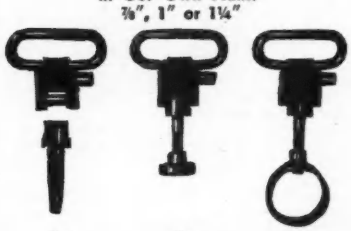

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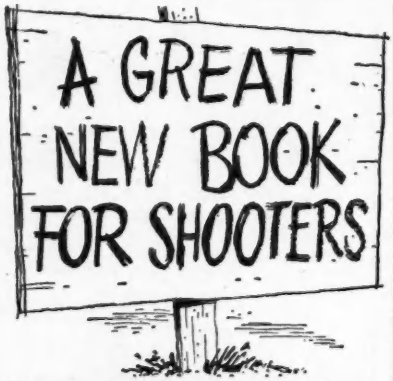

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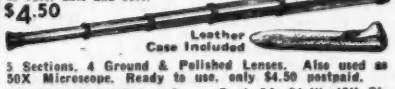

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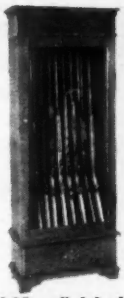

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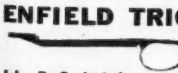

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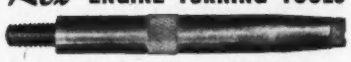

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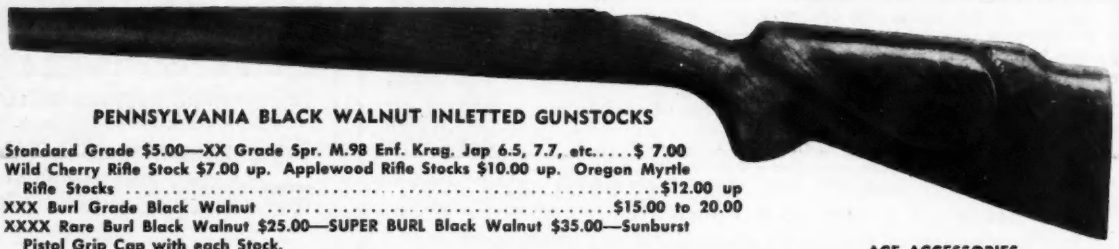

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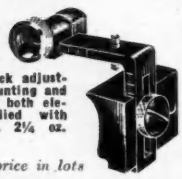

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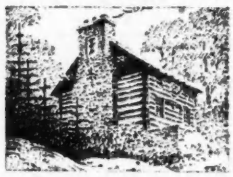

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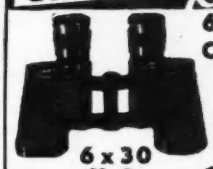

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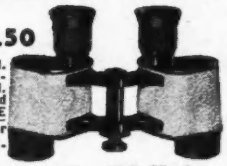

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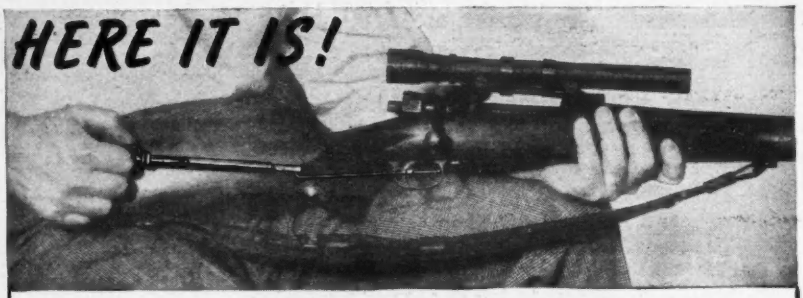

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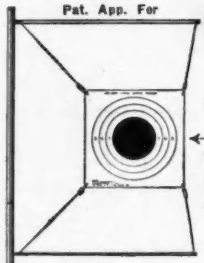

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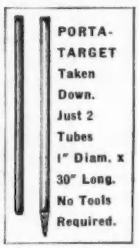

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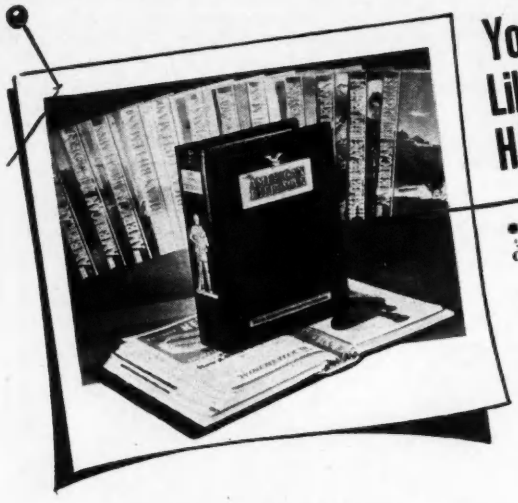

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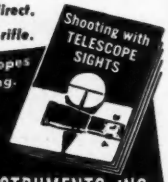

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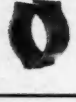

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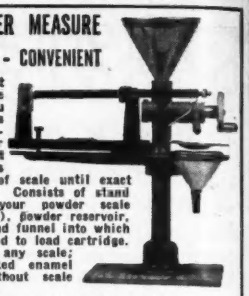

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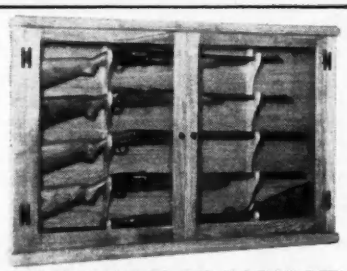

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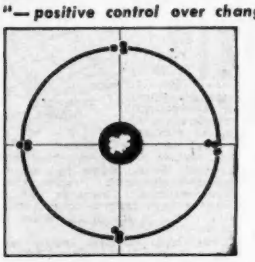

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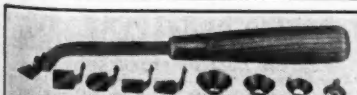

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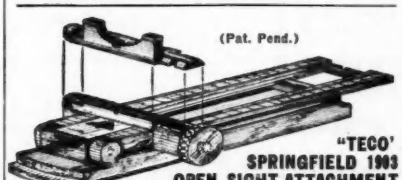

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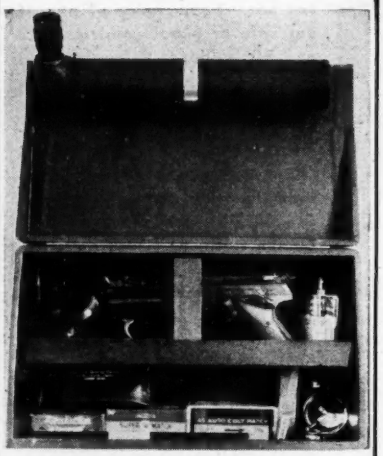

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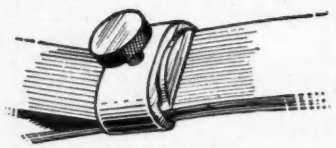

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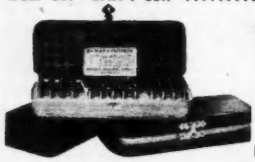

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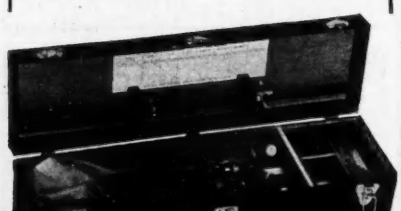

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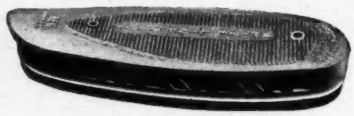

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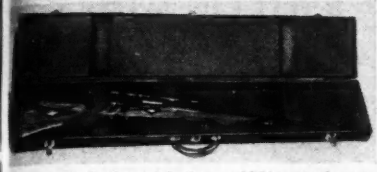

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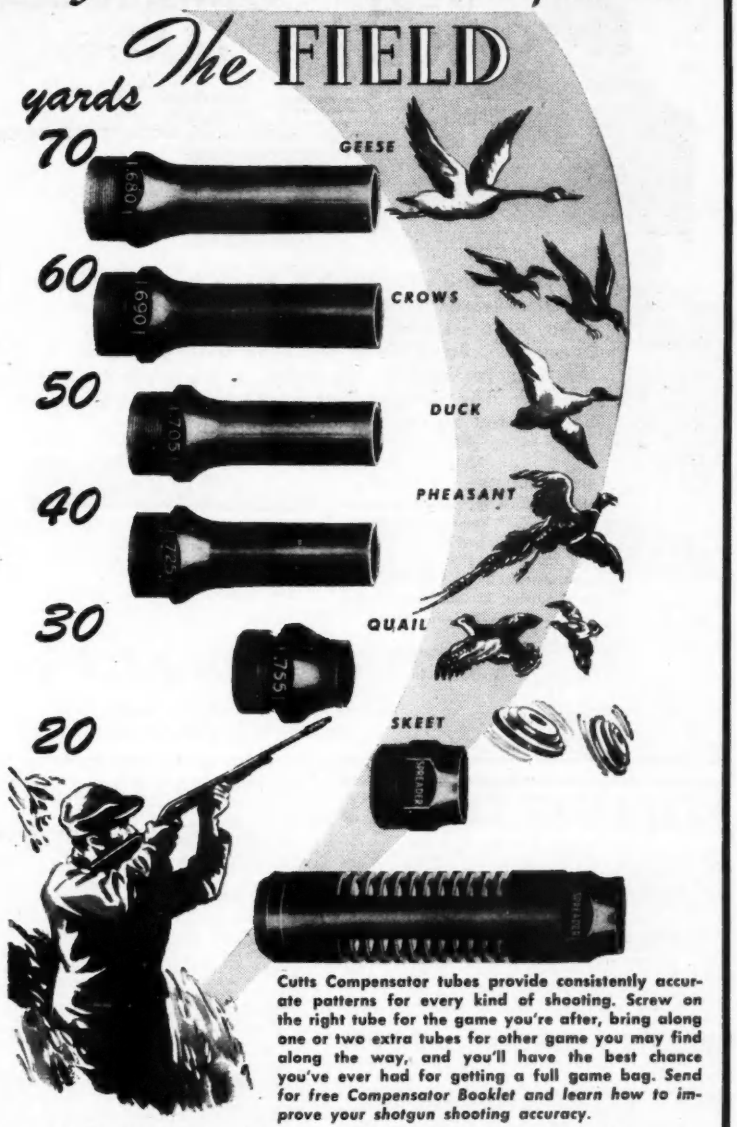

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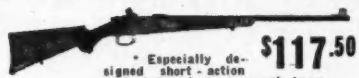

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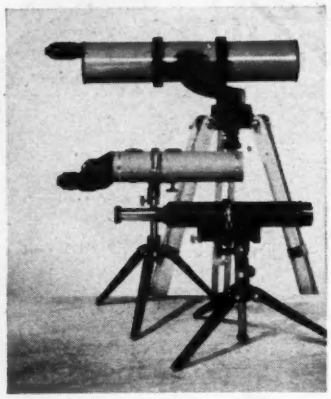

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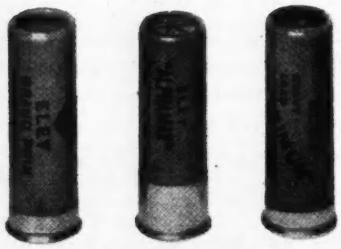

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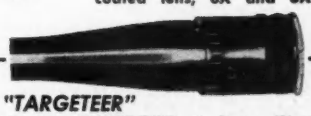

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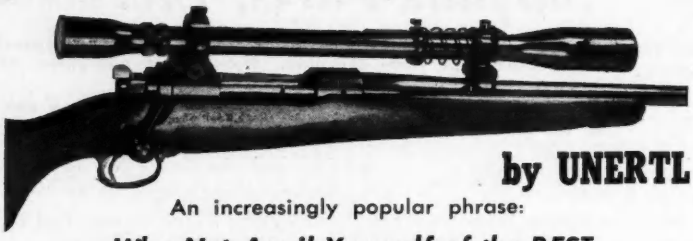

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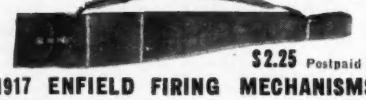

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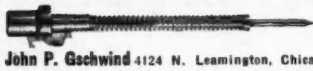

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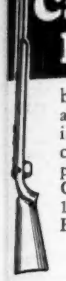

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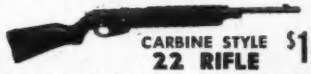

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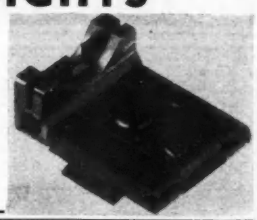

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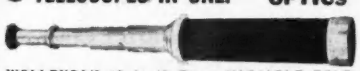

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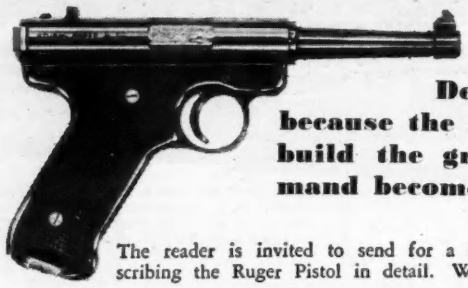

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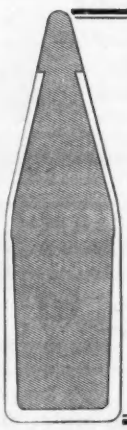

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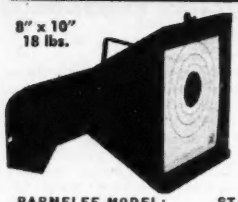

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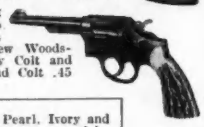

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